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This publication contains the annual cumulation of the Subject, Corporate Source, Personal Author, Report Number and Accession Number Indexes for *Scientific and Technical Aerospace Reports (STAR)*, Volume 1, Numbers 1 through 24. The accession number is the identification given by NASA to each item indexed in the year indicated (e.g., N63-12345).

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AEROPHYSICS CO., WASHINGTON, D.C.
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AEROPROJECTS, INC., WEST CHESTER, PA.
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AIR U., MAXWELL AFB, ALA.
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AIR WEATHER SERVICE, OFFUTT AFB, NEBR.
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AIR WEATHER SERVICE, SCOTT AFB, ILL.
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AIRCRAFT OWNERS AND PILOTS ASSN., BETHESDA, MD.
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AIRCRAFT RADIO CORP., BOONTON, N.J.
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AIRCRAFT RESEARCH ASSN., LTD., BEDFORD /GT. BRIT./
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AMERICAN ACADEMY OF ARTS AND SCIENCES, CAMBRIDGE, MASS.
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AMERICAN ASTRONAUTICAL SOCIETY, NEW YORK, N.Y.
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BIBLIOGRAPHY OF VACUUM ULTRAVIOLET SPECTROSCOPY
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AMERICAN ELECTRONIC LABS., COLMAR, PA.
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AMERICAN INST. FOR RESEARCH, PITTSBURGH, PA.
MAINTENANCE DESIGN FOR WEAPON SYSTEMS - DEVELOPMENT, PRODUCTION AND OPERATION
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AMERICAN INST. OF AERONAUTICS AND ASTRONAUTICS, NEW YORK, N.Y.
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AMERICAN INST. OF BIOLOGICAL SCIENCES, WASHINGTON, D.C.
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AMERICAN INST. OF ELECTRICAL ENGINEERS, NEW YORK, N.Y.
FIRE EXTINGUISHERS, SAFETY, AND DETONATION SUPPRESSION
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AMERICAN MACHINE AND FOUNDRY CO., ALEXANDRIA, VA.
STANDARDIZATION STUDY OF COAXIAL SWITCHES
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AMERICAN MACHINE AND FOUNDRY CO., GREENWICH, CONN.
ENGINE DESIGN EFFECT ON REMOTE HANDLING OF NUCLEAR ROCKET ENGINES
N63-22321 23-27

AMERICAN MACHINE AND FOUNDRY CO., STAMFORD, CONN.
GENERALIZED RESPONSE EVALUATION PROCEDURE FOR MULTIDEGREE SPRING MASS SYSTEM - VIBRATION

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LUNAR ALIGNMENT SYSTEMS TO FACILITATE LANDING
ASD-TDR-63-454 N63-22591 23-29

AMERICAN METEOROLOGICAL SOCIETY, BOSTON, MASS.
MODIFICATION OF HAILSTONE GROWTH
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AMERICAN OIL CO., WHITING, IND.
TRIPLET EXCITATION OF AROMATIC SOLUTES BY ELECTRON IRRADIATION
ASD-TDR-63-616 N63-18793 18-07

AMERICAN OPTICAL CO., FITTSBURGH, PA.
INSTRUMENT CAPABLE OF EXAMINING NULAR MATERIAL FOR CRATERS DUE TO MICROMETEOROID IMPACT
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AMERICAN OPTICAL CO., SOUTHBRIDGE, MASS.
NEODYMIUM GLASS LASER - PUMPING EFFICIENCY, SPECTRAL EMITTANCE
AROD-3209-2 N63-18148 16-25

AMERICAN POWER JET CO., RIDGEFIELD, N.J.
RELIABILITY OF RECOVERY SYSTEMS
N63-23322 24-04

AMERICAN ROCKET SOCIETY, NEW YORK, N.Y.
TECHNOLOGY OF RENDEZVOUS, DOCKING, AND TRANSFER - AEROSPACE MEDICINE N63-20564 20-29

AMERICAN SOCIETY OF MECHANICAL ENGINEERS, NEW YORK, N.Y.
GLOSSARY OF TERMS PERTAINING TO SYSTEMS INVOLVING AUTOMATIC PROCESS CONTROL, FEEDBACK CONTROL AND REGULATION
ASA-C85.1-1963 N63-20010 19-09

AMERICAN TELEPHONE AND TELEGRAPH CO., NEW YORK, N.Y.
TELSTAR COMMUNICATION SATELLITE
N63-11150 03-09

AMP, INC., HARRISBURG, PA.
ANNOTATED BIBLIOGRAPHY ON THERMOELECTRIC EFFECTS
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AMPEX CORP., REDWOOD CITY, CALIF.
GAS-LUBRICATED SLIDER BEARINGS
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HIGH DENSITY DIGITAL RECORDING
TR 63-12 N63-14330 10-20

INDUCTION GENERATOR - KINETIC ENERGY STORAGE SYSTEM FOR POWER SUPPLY
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TAPE REELING SYSTEMS
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VELOCITY CONTROL SYSTEM FOR TAPE RECORDERS UTILIZING SPLIT-PHASE INDUCTION MOTORS
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EXTERNALLY PRESSURIZED, AXISYMMETRICAL FOIL BEARINGS
RR-63-4 N63-17072 15-17

GAS LUBRICATED STEPPED THRUST BEARING ANALYSIS
RR-63-2 N63-19170 18-17

ANALYTICAL MECHANICS ASSOCIATES, INC., UNIONDALE, N.Y.
OPTIMAL ROCKET FLIGHT IN GRAVITATION FIELD
AIAA PAPER-63-221 N63-17799 16-20

COMPUTER PROGRAMMING FOR INTERPLANETARY TRAJECTORY ENCKE METHOD
NASA-TM-X-50131 N63-18869 18-29

TRAJECTORY OPTIMIZATION TECHNIQUE BASED ON THEORY OF SECOND VARIATION
AIAA PAPER-63-415 N63-20762 21-29

ANKARA U. /TURKEY/.
METEORIC DUST FALLOUT FROM IRON METEORITES
AFCRL-63-824 N63-19576 19-05

ANTIOCH COLL., YELLOW SPRINGS, OHIO.
HEIGHT-WEIGHT SIZING SYSTEM AND FABRICATION OF MANIKINS FOR DESIGNING NEW PROTECTIVE CLOTHING FOR FLIGHT
AMRL-TDR-63-55 N63-19357 18-17

APPLICAZIONI E RICERCHE SCIENTIFICHE, MILANO /ITALY/.
RAREFIED GAS DYNAMICS - PLANE POISEUILLE FLOW BETWEEN TWO PARALLEL PLATES WITH A MINIMUM AS FUNCTION OF KNUDSEN NUMBER N63-21592 22-11

APPLIED PHYSICS LAB., JOHNS HOPKINS U., SILVER SPRING, MD.
ENVIRONMENTAL TESTING PROCEDURES FOR TRANSIT SATELLITE PAYLOAD EQUIPMENT
TG-416-A N63-11735 04-30

PRECISION TIME AND FREQUENCY APPLICATIONS IN TRANSIT AND ANNA SATELLITE PROGRAM
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LINEAR ESTIMATION IN STOCHASTIC PROCESSES
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BIOSATELLITE RECOVERY FROM CIRCULAR ORBITS
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INJUN I SATELLITE OBSERVATIONS OF SOLAR PROTONS AND MAGNETIC STORMS N63-13317 07-28

SONIC GAS JET LATERAL INJECTION INTO SUPERSONIC DUCT FLOW
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COMBUSTION INSTABILITY OF BURNING SOLID PROPELLANT AND ASSOCIATED RESEARCH
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COMBUSTION INSTABILITY IN SOLID FUEL ROCKETS - ACOUSTIC RESONANCE N63-15577 12-26

ACOUSTIC AMPLIFICATION AND ATTENUATION BY BURNING SOLID PROPELLANTS - COMBUSTION INSTABILITY N63-15590 12-26

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VIBRATIONAL RELAXATION IN OXYGEN AT HIGH TEMPERATURE
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FLUID INJECTION & THRUST VECTOR CONTROL FOR ROCKETS - PERFORMANCE PREDICTION FOR GAS AND LIQUID INJECTANTS
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RELIABILITY OF TRANSIT NAVIGATION SATELLITE SYSTEM N63-17292 15-32

MICROELECTRONICS LAB AT JOHN HOPKINS UNIVERSITY N63-17357 15-09

MICROELECTRONICS - SYNTHESIS OF DECODER SUBSYSTEM USING THIN FILM TECHNIQUES N63-17376 15-09

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CHAPMAN-ENSKOG KINETIC THEORY OF TRANSPORT PROPERTIES OF DILUTE GASES - INELASTIC COLLISIONS N63-18567 17-11

CHEMICAL KINETICS IN SUPERSONIC NOZZLE FLOW N63-18574 17-07

SCALING IN UNSTABLE COMBUSTION PROCESSES OF SOLID PROPELLANT ROCKET ENGINES N63-18592 17-23

RELAXATION EFFECTS IN TRANSPORT PROPERTIES OF ROUGH SPHERE GAS - KINETIC THEORY OF POLYATOMIC MOLECULES
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MAGNETOHYDRODYNAMIC VORTICES
CM-1037 N63-19082 18-24

GRAVITY-GRADIENT ATTITUDE STABILIZATION OF A SATELLITE
TG-514 N63-20772 21-32

CLOCK PARADOX IN THEORY OF RELATIVITY - TIME BEHAVIOR IN COMPARABLE COORDINATE SYSTEMS
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FIXED GEOMETRY SHOCK-DUCT DIFFUSERS IN HYPERSONIC HELIUM TUNNEL
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TRIODE-DIODE FUNCTION GENERATOR FOR ANALOG COMPUTERS
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FORMAL KINETIC THEORY FOR TRANSPORT PHENOMENA IN POLYATOMIC GAS MIXTURE N63-23410 24-11

ENGINEERING PROBLEMS IN SCIENTIFIC SATELLITES ELECTRONIC APPARATUS FOR ATTITUDE CONTROL & POWER SUPPLY N63-23413 24-32

PHYSICAL CHEMISTRY AND FLUID DYNAMICS OF HIGH TEMPERATURE, HIGH SPEED GAS FLOW
SR-4-2 N63-23660 24-11

APPLIED PSYCHOLOGICAL SERVICES, WAYNE, PA.
HUMAN ENGINEERING, AIRCRAFT COCKPIT VISUAL DISPLAYS - FACTORS AFFECTING CONTROL ACTIVIATION - TOGGLE SWITCH DENSITY
NAMC-ACEL-488 N63-10114 01-04

APPLIED PSYCHOLOGY CORP., ARLINGTON, VA.
MIDAIR VISUAL COLLISION AVOIDANCE DATA APPLIED TO HIGHWAY SAFETY N63-12823 06-14

TEST RANGE EVALUATION OF AIRCRAFT PAINT PATTERNS FOR AIR TRAFFIC CONTROL N63-16567 14-15

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BACKSCATTERED LIGHT EFFECTS ON PILOT ABILITY TO DETECT AIRCRAFT TARGET LIGHTS N63-19080 18-23

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AIR TRAFFIC ALTITUDE EVASION IN VISUAL FLIGHT RULE COLLISION AVOIDANCE N63-19870 19-14

LIGHTING EQUIPMENT FOR TELEVISION AND RADIO ANTENNA TOWERS - MARGINAL VISUAL FLIGHT RULES WEATHER N63-19935 19-22

SIGNAL DETECTION BY PILOTS - LIGHT SOURCE AGAINST CITY LIGHT BACKGROUND - VISUAL PERCEPTION N63-20690 20-14

PILOT PERFORMANCE IN ESTIMATION OF AIRCRAFT RANGE AND ALTITUDE N63-22056 22-14

VISUAL MID-AIR COLLISION PREVENTION - ALTITUDE AND RANGE JUDGEMENT N63-22848 23-01

ARA, INC., WEST COVINA, CALIF.
THEORETICAL AND EXPERIMENTAL CONVOLUTED STRUCTURES FOR ENERGY ABSORPTION N63-15652 12-33

ARACON GEOPHYSICS CO., CONCORD, MASS.
TERRAIN ANALYSIS OF THE UNITED STATES SURFACE FEATURES AS VIEWED BY TIROS
ARA-T-9219-4 N63-20718 21-12

STRATIFORM CLOUD PATTERNS AND DISTRIBUTION IN CANARY ISLANDS FROM ANALYSIS OF PHOTOGRAPHS
AFCRL-63-694 N63-22441 23-21

ARBEITS- UND FORSCHUNGSGEMEINSCHAFT GRAF ZEPPELIN, STUTTGART /W. GERMANY/.
AUTOMATIC DEAD RECKONING NAVIGATION, ELECTRICAL EQUIPMENT, COMPUTATION INTEGRATION, DISPLAY N63-12786 06-22

ARCTIC HEALTH RESEARCH CENTER, ANCHORAGE, ALASKA.
AIR FORCE ARCTIC WASTE DISPOSAL SYSTEM
AAL-TDR-62-46 N63-21395 22-16

ARCTIC INST. OF NORTH AMERICA, MONTREAL /CANADA/.
METEOROLOGY AND GLACIOLOGY IN THE ARCTIC FROM MAY TO SEPT 1960 - ICE RISE STATION, WARD HUNT ISLAND
AINA RES. PAPER-24 N63-13470 08-21

ARCWELD MFG CO., GROVE CITY, PA.
RECORDING OF TIME-DEFORMATION DURING CREEP-RUPTURE TESTING AT 1200-DEG F N63-13237 07-33

ARDE-PORTLAND, INC., PARAMUS, N.J.
CRYOGENIC STRETCH FORMING OF SOLID-PROPELLANT ROCKET CASES N63-10457 01-17

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET CASES N63-13708 08-17

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ARGENTINA. COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES.
ELECTRONIC MICROSCOPY - DEFORMATION BY IMPACT AND ANNEALING - ALUMINUM N63-11333 03-18

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NYO-9539 N63-22835 23-23

ARGONNE CANCER RESEARCH HOSPITAL, CHICAGO, ILL.
RADIATION MEDICINE - APPLICATION TO CANCER RESEARCH - EFFECTS ON HUMAN BODY
ACRH-19 N63-18345 17-16

ARGONNE NATIONAL LAB., ILL.
NUCLEAR PHYSICS - GAMMA RADIATION, NEUTRON POLARIZATION, LIGHT NUCLEI
ANL-6603 N63-10407 01-23

ENGINEERING APPLICATIONS OF ANALOG COMPUTERS - REACTOR STUDIES
ANL-6319 REV. N63-10613 02-20

CRITICAL TWO-PHASE, ONE-COMPONENT FLOW
ANL-6633 N63-11025 03-11

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ARMY ROCKET AND GUIDED MISSILE AGENCY, HUNTSVILLE, ALA.
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ARMY SIGNAL MISSILE SUPPORT AGENCY, WHITE SANDS MISSILE RANGE, N. MEX.
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ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB., FORT MONMOUTH, N.J.
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ARMY TANK-AUTOMOTIVE COMMAND, CENTER LINE, MICH.
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ARMY TRANSPORTATION ENGINEERING AGENCY, FT. EUSTIS, VA.
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ARMY TRANSPORTATION RESEARCH COMMAND, FORT EUSTIS, VA.
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ARNOLD ENGINEERING DEVELOPMENT CENTER, ARNOLD AIR FORCE STATION, TENN.
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ARO, INC., ARNOLD AIR FORCE STATION, TENN.
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ANNOTATED BIBLIOGRAPHY - MAGNETIC SUSPENSION OF

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SPHERES AND BLUNT BODIES IN LOW DENSITY HYPERVELOCITY ARGON FLOW
AEDC-TDR-63-21 N63-13036 07-11

BIBLIOGRAPHY - RADIO TELEMETRY TO SURVIVE HIGH ACCELERATIONS
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RADIOTRACER TECHNIQUE IN ELECTROMETALLURGICAL PROCESSING
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AERODYNAMIC DESIGN AND CALIBRATION OF VKF 50-INCH HYPERSONIC WIND TUNNEL
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CALIBRATION OF 100-INCH HYPERVELOCITY WIND TUNNEL
AEDC-TDR-63-46 N63-14780 11-15

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AEDC-TDR-63-72 N63-14857 11-13

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EFFECT OF GAS AND SURFACE TEMPERATURE ON CRYOPUMPING OF NITROGEN AND ARGON
AEDC-TDR-63-51 N63-16033 13-11

VACUUM CHAMBER TEST PROGRAM FOR LUBRICANT FILM ON BEARINGS, GEARS AND PINIONS
AEDC-TDR-63-67 N63-16299 13-17

HEAT DISSIPATION IN SPACE ENVIRONMENTAL CHAMBERS - RADIATION TRANSMISSION THROUGH SHIELDING FOR CRYOPUMPING SURFACES
AEDC-TDR-63-75 N63-16530 14-08

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AEDC-TDR-62-61 N63-17686 16-20

CALIBRATION OF FLOW SURVEY METERS IN TRANSONIC WIND TUNNEL
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ROCKET HEAT TRANSFER MEASUREMENT - SLUG MASS CALORIMETER - CONVECTION AND RADIANT HEAT RATES
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SIMULATION OF SPACE ENVIRONMENTS WITH HIGH ENERGY PENETRATION RADIATIONS USING PARTICLES GENERATED BY HIGH ENERGY ACCELERATORS
AEDC-TDR-63-118 N63-18731 17-28

LAMINAR HEAT TRANSFER TO SPHERICALLY BLUNTED CONES AND HEMISPHERE CYLINDERS AT HYPERSONIC SPEED - ARC DISCHARGE WIND TUNNEL TEST
AEDC-TDR-63-102 N63-18742 17-13

DEVELOPMENT OF PRESSURE TRANSDUCER FOR PRESSURE MEASUREMENT IN HYPERVELOCITY WIND TUNNEL TESTING
AEDC-TDR-63-135 N63-18749 17-02

THERMODYNAMIC PROPERTIES OF AIR AND NITROGEN TO 15,000-DEG K
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AERODYNAMIC DATA CONCERNING VORTEX FLOW AND GAS VELOCITY IN SMALL DIRECT CURRENT ARC HEATER OPERATED WITH ARGON
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BOUNDARY-LAYER TRANSITION ON SWEPT WINGS AT MACH 2.5 TO 5
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STAGNATION POINT LAMINAR HEAT TRANSFER OF SPHERE IN AIR AND NITROGEN AT HIGH TEMPERATURES
AEDC-TDR-63-139 N63-19644 19-13

AERODYNAMIC CHARACTERISTICS OF HYPERVELOCITY BALLISTIC MODELS AT MACH 1.5 TO 10
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ANALOG COMPUTER TECHNIQUES IN THRUST COMPENSATION METHODS
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CALCULATING FLOW PROPERTIES BY MOLECULAR KINETICS METHOD COMPARED TO MONTE CARLO TECHNIQUE
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ELLIPTICAL CONE - PRESSURE DISTRIBUTION, FLOW STREAMLINES, AND SHOCK WAVE SHAPE AT HIGH ANGLES OF ATTACK AT MACH 10
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BLACK BODY RADIATION OF FROST CRYODEPOSIT
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VACUUM CRYOSORPTION BY ACTIVATED CHARCOAL
AEDC-TDR-63-170 N63-20590 20-11

PRESSURES IN STAGNATION REGIONS OF BLUNT BODIES IN VISCOUS LAYER TO MERGED LAYER REGIMES OF RAREFIED GAS FLOW
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MOLLIER DIAGRAM FOR AIR INCLUDING EFFECTS OF DISSOCIATION IONIZATION AND INTERMOLECULAR POTENTIALS
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AUXILIARY EJECTOR EFFECTS ON ROCKET-DRIVEN DIFFUSER PERFORMANCE DURING THRUST VARIATION
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WIND TUNNEL CALIBRATION PROGRAM - BOUNDARY LAYER

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CRYOGENIC PUMPING IN HIGH MASS FLOW SYSTEM
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DIFFUSER-EJECTER PERFORMANCE WITH DIFFERENT DRIVING FLUIDS
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SPHERICAL STRESS WAVES AND FRACTURES IN SOLIDS PRODUCED BY HYPERVELOCITY IMPACT
AEDC-TDR-63-197 N63-23611 24-11

TRANSFORMATION OF AXES SYSTEMS BY MATRIX METHODS AND APPLICATION TO WIND TUNNEL DATA REDUCTION
AEDC-TDR-63-224 N63-23666 24-02

ASOCIACION ESPANOLA DE ASTRONAUTICA, MADRID /SPAIN/.
PHYSICO-MATHEMATICAL ANALOGIES BETWEEN MOTIONS IN ATMOSPHERE AND INTERSTELLAR SPACE
N63-18918 18-02

ASSOCIATED UNIVERSITIES, INC., NEW YORK, N.Y.
PHYSICS, ACCELERATORS, CHEMISTRY, BIOLOGY, MEDICINE - BNL REPORT
BNL-742/AS-16/ N63-12924 07-01

ASSOCIAZIONE INTERNAZIONALE UOMO NELLO SPAZIO, ROME /ITALY/.
SCIENCE, ENGINEERING AND TECHNOLOGY IN THE SPACE AGE N63-18914 18-01

ASSOCIAZIONE ITALIANA RAZZI, ROME /ITALY/.
PERCEPTION OF MOTION, EQUILIBRIUM, AND ORIENTATION UNDER THE CONDITIONS OF WEIGHTLESSNESS
N63-18940 18-16

ASTRO RESEARCH CORP., SANTA BARBARA, CALIF.
EXPANDABLE STRUCTURES, SPACECRAFT, SOLAR ENERGY COLLECTORS, RECOVERY
ARC-R-77 N63-10951 02-34

THEORY OF FOLDING DEFORMATIONS IN EXPANDABLE STRUCTURES, TOROIDAL SHELLS
NASA-TN-D-1690 N63-11056 03-34

THEORY AND APPLICATION OF FILAMENTARY STRUCTURES - FILAMENT-WOUND PRESSURE VESSELS
NASA-TN-D-1692 N63-11057 03-34

DEFORMATION MECHANISMS OF SURFACES FOR EXPANDABLE STRUCTURES WITH SCREW SHAPE
ARC-R-72 N63-12656 06-34

PACKAGING INFLATABLE STRUCTURES - ISOMETRIC MAPPING OF STRAIN-FREE SURFACE DEFORMATIONS FOR FLAT ANNULAR DISK PACKAGE
NASA-TN-D-1918 N63-15393 12-34

DEFORMATION OF FLEXIBLE INFLATABLE STRUCTURES
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ANALYSIS OF AXISYMMETRIC ROTATING PRESSURIZED FILAMENTS
NASA-TN-D-1920 N63-15778 13-34

ANALYTICAL DESIGN FOR FILAMENT WOUND PRESSURE VESSELS - EFFECT OF CENTRIFUGAL LOADING
N63-17657 16-34

SELF-DEPLOYING SPACE STATION REQUIREMENTS FOR INFLATABLE SECTIONS
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ASTRONETIC RESEARCH, INC., NASHUA, N.H.
BIAS FUNCTION GENERATOR - OUTPUT VOLTAGES
AFCRL-TDR-63-492 N63-19934 19-06

EFFECT OF GUST ALLEVIATION SYSTEMS ON AERODYNAMIC LOADS N63-21303 21-02

ASTROPHYSICAL INST., ALMA ATA /USSR/.
COMETARY NATURE OF TUNGUSK METEORITES
N63-16664 14-05

ASTROPHYSICAL LAB., ASHKHABAD /USSR/.
METEOR SPECTROGRAPHY N63-16645 14-05

ASTROPOWER, INC., COSTA MESA, CALIF.
ELECTROCHEMICAL AND PHYSICAL PROPERTIES OF ZEOLITES FOR FUEL CELLS
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ASTROPOWER, INC., NEWPORT BEACH, CALIF.
COMPATIBILITY OF STRUCTURAL MATERIALS WITH HIGH PERFORMANCE CRYOGENIC LIQUID OXIDIZERS CONTAINING FLUORINE COMPOUNDS N63-19901 19-26

SOLUTION AND CONDUCTIVITY STUDIES IN FLUORINE CONTAINING LIQUID OXIDIZERS N63-22795 23-26

ATHENS U. /GREECE/.
ELECTRON SCATTER IN SOLIDS FROM COMPTON EFFECT
N63-20167 20-25

ATLANTIC RESEARCH CORP., ALEXANDRIA, VA.
FIRE EXTINGUISHERS, SAFETY, AND DETONATION SUPPRESSION
ASD-TDR-62-526 N63-10149 01-26

GAS-METAL REACTION IN ROCKET NOZZLES
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COMBUSTION AND DETONATION HAZARDS OF LIQUID HYDROGEN IN R&D FACILITIES
ASD-TDR-62-1027 N63-11878 04-26

CHEMICAL REACTIONS BETWEEN PLASTIC COMPOSITE MATERIALS AND PROPELLANT EXHAUST GASES
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NUCLEAR REACTOR FACILITIES - UNITED STATES

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HEAT TRANSFER IN FUEL ELEMENTS AND COOLING WATER CHANNELS IN PRESSURIZED WATER POWER REACTORS - BIBLIOGRAPHY
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NUCLEAR FUELS AND MATERIALS DEVELOPMENT - REACTOR EFFICIENCY, OUTPUT AND LIFE, DESIGN
TID-11295 /2ND ED./ N63-13693 08-01

DIRECT ENERGY CONVERSION AND SYSTEMS FOR NUCLEAR AUXILIARY POWER - LITERATURE SEARCH
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ELECTRON THEORY OF CRYSTALS WITH IONIC LATTICES - DIELECTRICS AND SEMICONDUCTORS
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ANALYTICAL SOLUTION OF ENERGY DEPENDENT NEUTRON TRANSPORT PROBLEN FOR PLANE GEOMETRY
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FUNDAMENTAL NUCLEAR ENERGY RESEARCH - RADIATION MEDICINE, PHYSICAL SCIENCES, ENVIRONMENTAL SCIENCE, NUCLEAR REACTOR, RADIOACTIVE WASTE N63-15708 12-01

REACTOR FUEL ELEMENT CONFERENCE, GATLINBURG, TENN, 1962 - VOL 2
TID-7642, BK. 2 N63-16118 13-18

WELDING IN A RADIOACTIVE ENVIRONMENT
TID-7620 /PT. 1/ N63-17251 15-18

NUCLEAR REACTOR CHEMISTRY
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HIGH-ENERGY NUCLEAR ACCELERATOR PHYSICS
TID-18636 N63-17769 16-25

DIFFUSION IN METALS - CHEMICAL KINETICS OF EXCHANGE REACTIONS
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ARTIFICIAL RADIATION BELT FORMED BY TRAPPED ELECTRON PARTICLES FROM STARFISH HIGH ALTITUDE NUCLEAR EXPLOSION
NASA-TM-X-50195 N63-18859 18-12

SALZBURG PLASMA PHYSICS CONFERENCE, SEPT 1961 - PLASMA BEHAVIOR IN MAGNETIC FIELDS AND TRAPS
AEC-TR-5589, BK. 1 N63-19193 18-24

SALZBURG CONFERENCE ON PLASMA PHYSICS & CONTROLLED NUCLEAR FUSION, SEPT 1961
AEC-TR-5589, BK. 2 N63-19194 18-24

REFERENCES TO UNCLASSIFIED REPORTS ON REACTOR SYSTEMS - REACTOR SAFETY
TID-3523/REV. 5/ N63-21018 21-23

SPECTROMETRY, REFLECTION, SCATTERING, AND STRUCTURE OF NEUTRON - SLOW NEUTRON PHYSICS
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BIBLIOGRAPHY OF MOLYBDENUM, NIOBIUM, AND MOLYBDENUM-NIOBIUM ALLOY METALLURGY
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NUCLEAR REACTOR FACILITIES N63-22222 23-18

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ATMOSPHERIC, OCEANOGRAPHIC & GEOHYDROLOGIC STUDIES RELATED TO NUCLEAR ROCKET FLIGHT N63-22308 23-16

ATOMIC ENERGY ESTABLISHMENT, WINFRITH /GT. BRIT./
NEUTRON FLUX STRUCTURE IN GRAPHITE LATTICES - URANIUM METAL & OXIDE FUEL ELEMENTS - BUCKLING AND FLUX DISTRIBUTION
AEEW-R-235, PT. III N63-20058 20-25

FAST FISSION NUCLEAR REACTOR - FAST FISSION FACTOR FROM BASIC NUCLEAR DATA
AEEW-R-131 N63-20673 20-23

ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO.
CONTAMINATION RATE METER FOR MEASURING ALPHA AND BETA PARTICLE ACTIVITY
CRRD-1109 N63-16597 14-15

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METAL CORROSION OF ZIRCONIUM ALLOYS IN WATER AND STEAM AT HIGH TEMPERATURE AND PRESSURE
AECL-1724 N63-17810 16-18

DIGITAL DATA STORAGE AND DISPLAY USING MAGNETIC DRUM AND CATHODE RAY TUBE SCREEN
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NUCLEAR AND THEORETICAL PHYSICS, NEUTRON INELASTIC SCATTERING IN LIQUIDS, SOLIDS AND ELECTRONIC DEVICES
AECL-1778 N63-20280 20-23

COMPUTER DESIGN FOR NUMBER DISCRIMINATOR AND WINDOW SELECTOR CIRCUIT
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RAPID SPECTROGRAPHIC METHOD FOR DETERMINATION OF BERYLLIUM ON FILTERS
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COMPUTER PROGRAM FOR SOLUTION OF ONE-GROUP NEUTRON DIFFUSION IN THREE DIMENSIONS BY FINITE DIFFERENCE METHOD
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ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL /GT. BRIT./
PERMEABILITY OF SOME PLASTIC MATERIAL SUITABLE FOR HIGH VACUUM SYSTEM CONSTRUCTION
AERE-M-599 N63-15466 12-19

DEVELOPMENT OF NEW TYPE OF PYROLYTIC CARBON BY PYROLYSIS
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VACUUM FURNACE FOR SINTERING CARBIDES AND OXIDES
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GAMMA RADIATION BACKGROUND MEASUREMENTS - INSTRUMENT SELECTION
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SEMICONDUCTOR DIODES IN PULSE FREQUENCY MODULATION
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VARIABLE TEMPERATURE APPARATUS FOR MEASURING MAGNETIC SUSCEPTIBILITY - GOUY APPARATUS
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X-RAY LINE WIDTH CORRECTION TABLES AND PEAK HEIGHT FOR ALPHA-1 ALPHA-2 DOUBLING EFFECT
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PRODUCTION OF VACUUM BY CONDENSATION OF GASES ON LOW TEMPERATURE SURFACES - CRYOGENIC PUMP
AERE-TRANS-915 N63-23371 24-11

ATOMIC POWER DEVELOPMENT ASSOCIATES, INC., DETROIT, MICH.
SODIUM HEATED STEAM GENERATOR AND SODIUM COOLED REACTORS/LIQUID METAL COOLED REACTOR/
TID-18072 N63-18001 16-23

FAST REACTOR FUEL CYCLE COSTS AND TEMPERATURE COEFFICIENTS OF REACTIVITY FOR PLUTONIUM DIOXIDE-STAINLESS STEEL & PLUTONIUM-URANIUM DIOXIDE SYSTEM
APDA-154 N63-22732 23-23

ATOMICS INTERNATIONAL, CANOGA PARK, CALIF.
TEMPERATURE COEFFICIENTS & SPECTRA IN HYDRIDE MODERATED SNAP REACTORS
NAA-SR-7140 N63-11825 04-06

OXIDATION OF URANIUM CARBIDE BY CARBON DIOXIDE
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PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDES
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LINEAR POWER DETECTION AND RECORDING INSTRUMENT SYSTEMS FOR KINETIC EXPERIMENTS ON WATER BOILERS
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DIFFUSIVITY OF TITANIUM CARBIDE AND THERMO-CONDUCTIVITY OF TITANIUM NITRIDE FOR NOZZLE APPLICATION
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APPLICATION OF SNAP-2 TO MANNED ORBITAL SPACE STATIONS
AI-7950 N63-12311 05-06

STATISTICAL ANALYSIS OF SNAP-10A THERMOELECTRIC CONVERTER ELEMENT PROCESS DEVELOPMENT VARIABLES
NAA-SR-7288 N63-12742 06-06

PERFORMANCE OF CESIUM THERMIONIC DIODES OPERATED IN SERIES-PARALLEL CIRCUITS
NAA-SR-7661 N63-12765 06-09

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N63-13549 08-15

NUCLEAR REACTOR KINETICS, STABILITY AND CONTROL - BIBLIOGRAPHY
NAA-SR-7786 N63-14022 09-23

REFLECTED REACTOR KINETICS - TRANSFER FUNCTION DERIVATION
NAA-SR-7263 N63-14342 10-23

TRANSMISSION OF THERMAL NEUTRON THROUGH CADMIUM COVERED FOILS
NAA-SR-7770 N63-14561 10-13

CAPSULE IRRADIATION OF UNALLOYED URANIUM AT HIGH TEMPERATURES - FUEL DEVELOPMENT FOR SODIUM COOLED REACTORS
NAA-SR-7098 N63-14661 10-26

SNAP AEROSPACE SAFETY PROGRAM
NAA-SR-8097 N63-14664 10-06

AEROSPACE SAFETY DEVICES OF SNAP PROGRAM
NAA-SR-7797 N63-14724 11-06

LARGE SPACE RADIATORS IN FIELD OF ELECTRIC PROPULSION N63-14746 11-06

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NIOBIUM DIFFUSION BARRIER FOR ALUMINUM-CLAD URANIUM ALLOY FUEL ELEMENTS
NAA-SR-7973 N63-14963 11-17

AUTORADIOMETRIC SYSTEM FOR DIFFERENTIATING BETWEEN NORMAL OR ENRICHED URANIUM OR URANIUM ALLOYS
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SODIUM BOILING & CONDENSING FOR HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTOR
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HIGH-TEMPERATURE LIQUID METAL HEAT TRANSFER - APPARATUS FOR DETERMINING HEAT TRANSFER OF POOL AND FORCED CONVECTION BOILINGS OF MERCURY
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SYSTEM FOR NUCLEAR AUXILIARY POWER SHIELD TEST EXPERIMENT REACTOR
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ELECTROMAGNETIC PUMP FOR LIQUID METAL COOLING

SYSTEM OF NUCLEAR REACTORS USING HELICAL ROTORS AS INDUCERS
NAA-SR-7455 N63-17245 15-17

EQUIPMENT FOR CONTINUOUS MEASUREMENT OF VOID FRACTION IN BOILING ORGANIC COOLANT - NUCLEAR REACTOR COOLANTS
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URANIUM FUEL ELEMENT ARRANGEMENTS IN TRIANGULAR, GRAPHITE LATTICE NUCLEAR REACTOR - CRITICAL LOADINGS AND FUEL ELEMENTS
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CARBURIZATION OF AUSTENITIC STAINLESS STEEL BY URANIUM CARBIDES IN SODIUM SYSTEMS
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THERMAL PROPERTIES OF REFRACTORY MATERIALS - HEAT CONDUCTION N63-17740 16-18

ELECTRICAL CONDUCTIVITIES OF MOLTEN BISMUTH/BISMUTH TRIIODIDE
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REACTOR TECHNOLOGY & SAFETY - LIQUID METAL COOLED, HALLAM POWER, ORGANIC MODERATED AND POWER REACTORS
NAA-SR-7400 N63-18010 16-23

DETERMINATION OF CARBON IN SODIUM BY ISOTOPE DILUTION AND MASS SPECTROMETRY
NAA-SR-7918 N63-18180 16-07

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NAA-SR-8304 N63-18265 17-06

HALLAM NUCLEAR POWER FACILITY - REACTOR OPERATIONS ANALYSIS PROGRAM
NAA-SR-8401 N63-18821 18-23

STATISTICAL ANALYSIS OF HOT CHANNEL FACTORS FOR COMPACT SNAP REACTORS
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GROWTH OF BERYLLIUM OXIDE CRYSTAL FROM SILICON, ALUMINUM, AND OTHER IMPURITIES
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SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM/SNAP 8/ REACTOR AND SHIELD DESIGN
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STEADY STATE THERMAL GRADIENT FOR GROWTH OF BERYLLIUM OXIDE SINGLE CRYSTALS IN A MOLTEN FLUX
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DECARBURIZATION OF CAST URANIUM CARBIDE BY HEATING IN HYDROGEN
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AEROSPACE NUCLEAR SAFETY FOR SNAP PROGRAM - REENTRY, IMPACT, AND HAZARDS
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UCLA-516 N63-20346 20-16

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NUCLEAR MEDICINE AND RADIOBIOLOGY RESEARCH
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HIGH-TEMPERATURE GROWTH MECHANISM OF SINGLE CRYSTALS OF METAL OXIDES
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COSMIC, INC., WASHINGTON, D.C.
CONSTANT OBLIQUE FIELD, ELECTROSTATIC GENERATOR - ELECTRIC POWER CONVERSION
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COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, JOHANNESBURG /UNION OF S. AFRICA/.
TELECOMMUNICATIONS RESEARCH - RADIO PROPAGATION, IONOSPHERIC ABSORPTION, WEATHER RADAR, LF RADIO NOISE, AND SPACE TRACKING - SOUTH AFRICA
CSIR-T-26 N63-15368 12-08

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI /INDIA/.
IONOSPHERIC DATA, INDIA, MARCH 1962
RRC-A82 N63-10789 02-12

IONOSPHERIC PREDICTIONS FOR JANUARY AND FEBRUARY 1963 - MAXIMUM USABLE AND CRITICAL FREQUENCIES
RRC-B76 N63-10911 02-12

IONOSPHERIC DATA TABULATIONS, INDIA, APRIL 1962
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FOCKE-WULF, BREMEN /W. GERMANY/.
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BIBLIOGRAPHY - SOVIET SATELLITE OPERATIONS, 1957-1962
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HUGHES AIRCRAFT CO., EL SEGUNDO, CALIF.
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HUGHES AIRCRAFT CO., FULLERTON, CALIF.
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HUGHES AIRCRAFT CO., LOS ANGELES, CALIF.
BEAM INTERACTION STRUCTURE FOR TRAVELING WAVE TUBES AND AMPLIFIERS
ASD-TR-61-277 N63-15680 12-09

HUGHES RESEARCH LABS., MALIBU, CALIF.
ION PROPULSION - THRUSTOR, ION SOURCES, PROPELLANT CONTROL, POWER CONDITIONING AND PERFORMANCE TESTS
ARS PAPER-2650-62 N63-11264 03-27

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POWER AND BANDWIDTH REQUIREMENTS FOR MODULATION SYSTEMS FOR SATELLITE COMMUNICATIONS
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HUGHES TOOL CO., CULVER CITY, CALIF.
SYNCHRONOUS SATELLITES USED AS COMMUNICATION SATELLITES N63-11151 03-09

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HULL U. /GT. BRIT./
SELF-INHIBITION OF GASEOUS EXPLOSIONS - INHIBITION OF HYDROGEN-OXYGEN EXPLOSIONS BY ALKANES
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HUMAN SCIENCES RESEARCH, INC., ARLINGTON, VA.
IDENTIFICATION OF HUMAN FACTORS RESEARCH REQUIREMENTS FOR VISUAL ATTACHMENTS TO DYNAMIC FLIGHT SIMULATORS
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DOUGLAS C-54 AS RESEARCH VEHICLE TO SIMULATE JET AIRCRAFT
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HUMBLE OIL AND REFINING CO., BAYTOWN, TEX.
MASS SPECTROMETRIC STUDY OF HOMONUCLEAR AND HETERONUCLEAR RARE GAS MOLECULE ION
HUM-1-P N63-13917 09-07

REACTIONS OF GASEOUS IONS - HIGH PRESSURE MASS SPECTROMETRIC STUDY OF METHANE IN SQUID PROJECT
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ION REACTIONS AT LOW ELECTRON ENERGY - HYDROGEN, DEUTERIUM, AND METHANE - SQUID PROJECT
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HUMBOLDT U., BERLIN /E. GERMANY/.
ELECTROPHORETIC EXAMINATION OF PARTIALLY DENATURED SERUM PROTEIN N63-18955 18-16

HYDRONAUTICS, INC., LAUREL, MD.
APPARATUS FOR STUDY OF CAVITATION DAMAGE IN LIQUID METALS N63-10998 02-11

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NR-062-265 N63-22337 23-02

HYDRONAUTICS, INC., ROCKVILLE, MD.
ANALYSIS OF THE BULBOUS BOW ON SHIPS
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SHIPS WITH ZERO WAVE RESISTANCE
N63-10216 01-11

LOW DRAG SUPERCAVITATING HYDROFOIL SECTIONS - VENTILATED LIFTING SURFACES N63-16065 13-11

HYLETRONICS CORP., BURLINGTON, MASS.
MICROWAVE STUDIES OF SEMICONDUCTING DIAMONDS - CONDUCTIVITY BY CAVITY PERTURBATION THEORY
AFCRL-63-378 N63-23347 24-09

HYNES CHEMICAL RESEARCH CORP., DURHAM, N.C.
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TURBULENT FLOW TRANSITIONS NEAR SOLID AND FLEXIBLE BOUNDARIES
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INDIA. DEPT. OF ATOMIC ENERGY, BOMBAY.
NUCLEAR PHYSICS - NUCLEAR REACTIONS, SPECTROSCOPY, MAGNETIC RESONANCE, NEUTRON SCATTERING AND DIFFRACTION, RADIATION DAMAGE - SYMPOSIUM, 1962
N63-10767 02-23

VAN DE GRAAFF ACCELERATOR - BEAM ANALYZER, ENERGY STABILIZING SYSTEM, AND HIGH VOLTAGE GENERATOR
AEET/NP/5 N63-12973 07-10

ATMOSPHERIC CONTAMINATION AND RADIATION DOSE FROM NUCLEAR EXPLOSIONS UP TO APRIL 1962
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SELECTED BIBLIOGRAPHY OF OXIDES OF CADMIUM
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RESEARCH AND DEVELOPMENT OF ATOMIC ENERGY IN INDIA
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NUCLEAR PHYSICS - REACTIONS & SPECTROSCOPY
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ELECTRICAL CONDUCTIVITY OF URANIUM OXIDE AS FUNCTION OF TEMPERATURE AND PARTIAL PRESSURE OF OXYGEN
AEET/CD/13 N63-20954 21-25

INDIAN INST. OF SCIENCE, BANGALORE.
ANNUAL REPORT, INDIAN INSTITUTE OF SCIENCE, 1961 TO 1962 - CHEMISTRY, PHYSICS, METALLURGY, PHARMACOLOGY, MATHEMATICS & ENGINEERING
N63-18302 17-01

INDIANA U., BLOOMINGTON.
CALIBRATION OF THE INFRARED OPTOMETER
AMRL-TDR-62-88 N63-10183 01-15

PSYCHOPHYSICS AND SIGNAL DETECTION THEORY
ESD-TDR-62-305 N63-21698 22-14

INDIANA U. FOUNDATION, BLOOMINGTON.
CUMULATIVE AUDITORY EFFECT RESULTING FROM MULTIPLE EXPOSURE TO INTENSE ACOUSTICAL STIMULATION - DEAFENING EFFECTS OF NOISE ON CATS
AMRL-TDR-62-99/1/ N63-16286 13-18

INDUSTRIAL SCIENCE AND TECHNOLOGY AGENCY, TOKYO /JAPAN/.
DIFFUSION MAGNETIC AFTEREFFECT AND ACCOMPANYING PHENOMENA IN SUBSTITUTIONAL FERROMAGNETIC ALLOYS
N63-11904 04-23

AGITATIONAL PHENOMENA ON POWER SYSTEMS - LIGHTNING SURGES AND OVERVOLTAGE
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INNSBRUCK U. /AUSTRIA/.
SPACE MEDICINE - LEUKEMIA, ANEMIA AND RELATED HEMATOLOGICAL DISORDERS FROM ATOMIC RADIATION
N63-18950 18-16

MODELING STUDIES OF SUBSURFACE, VERY LOW FREQUENCY WAVE PROPAGATION IN LIQUIDS AND SOLIDS
AFCRL-63-353 N63-21800 22-09

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION
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APPROXIMATE SOLUTION OF MAGNETOHYDRODYNAMIC EQUATIONS FOR FINITE ELECTRICAL CONDUCTIVITY
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PRESSURE HILL & ADIABATIC ELLIPSE IN MAGNETOGAS-DYNAMICS N63-23516 24-24

DETERMINATION OF ROCK CONDUCTIVITY FROM VERY LOW FREQUENCY WAVE PROPAGATION MEASUREMENTS
AFCRL-63-383 N63-23581 24-08

INSTITUT FRANCO-ALLEMAND DE RECHERCHES, ST. LOUIS /FRANCE/.
AUTOMATIC MEASUREMENT OF FLOW VELOCITY VECTOR WITH BERYLLIUM-BRONZE SIPHON MEMBRANE
N63-20810 21-15

INSTITUTE FOR DEFENSE ANALYSES, PRINCETON, N.J.
PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MONOTONE HAZARD RATE
DI-82-0148 N63-14656 10-20

INSTITUTE FOR DEFENSE ANALYSES, WASHINGTON, D.C.
MATERIALS PROBLEM FOR THROAT INSERTS OF HIGH ENERGY SOLID PROPELLANT ROCKETS
IDA-TR-62-19 N63-19272 18-26

POSITRONS AS TRACERS TO STUDY MOTION OF TRAPPED ELECTRONS IN EARTH MAGNETOSPHERE
IDA/HQ-63-1715 N63-20063 20-28

INDUCTIVE ENERGY STORAGE, SUPERCONDUCTORS, MAGNETOHYDRODYNAMICS, TRANSDUCERS, SWITCHING & CONTROL RESEARCH
IDA/HQ-63-1412 N63-22280 23-01

INSTITUTE FOR RESEARCH, STATE COLLEGE, PA.
SUBJECTIVE PROBABILITY DISTRIBUTIONS - GAME THEORY
ESD-TDR-63-407 N63-20631 20-14

OPTIMAL STRATEGIES IN FUNGUS-EATER GAMES - LEARNING, DECISION PROCESS, GAMBLING - HUMAN BEHAVIOR
ESD-TDR-63-406 N63-20642 20-14

INSTITUTE OF ANDEAN BIOLOGY, LIMA /PERU/.
ELECTROCARDIOGRAPHIC AND VECTORCARDIOGRAPHIC OBSERVATIONS OF THE HEART AT HIGH ALTITUDES
SAM-TDR-62-87 N63-10655 02-16

HUMAN SKELETAL MUSCLE MYOGLOBIN CONTENT AND HIGH ALTITUDE ADAPTATION
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PYRIDINE NUCLEOTIDE OXIDASES AND TRANSHYDROGENASE IN ACCLIMATIZATION TO HIGH ALTITUDE
SAM-TDR-62-88 N63-14791 11-16

PERUVIAN INDIANS - THERMAL AND METABOLIC RESPONSE TO COLD
AAL-TDR-62-64 N63-21408 22-16

INSTITUTE OF ENVIRONMENTAL SCIENCES, WASHINGTON, D.C.
SPACECRAFT AND DYNAMIC LOADS IN SPACE ENVIRONMENTS
N63-20876 21-18

INSTITUTION OF NUCLEAR ENGINEERS, LONDON /GT. BRIT./.
NUCLEAR PROPULSION AND AUXILIARY POWER SOURCES FOR SPACE TRAVEL N63-18928 18-26

INSTITUTO AEROTECNICO, CORDOBA /ARGENTINA/.
MEASURING BOUNDARY LAYERS AND WAKES IN SUPERSONIC FLOW N63-12797 06-11

INSTITUTO GEOFISICO DEL PERU, HUANCAYO.
RIOMETER RECORDS OF 30 MC/S - COSMIC NOISE AT HUANCAYO, PERU, JUNE 1961 TO SEPTEMBER 1962
N63-13426 08-08

INSTITUTO NACIONAL DE TECNICA AERONAUTICA, MADRID /SPAIN/.
SPHERICO-SYMMETRICAL LAMINAR FLOW DIFFUSION FLAME - STRUCTURAL ANALYSIS N63-18506 17-26

INSTITUTO TECHNOLOGICO DE AERONAUTICA, SAO PAULO /BRAZIL/.
SIMPLIFIED MODEL OF THE THIN WALL CYLINDER AND DESCRIPTION OF CONE BUCKLING MECHANISM
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INSTITUTO Y OBSERVATORIO ASTRONOMICO DE MARINA, SAN FERNANDO /SPAIN/.
METEOROLOGICAL AND MAGNETIC OBSERVATIONS IN SPAIN, 1957-1958 N63-15428 12-21

ASTRONOMICAL ALMANAC, MAY-AUG 1963 - DATA FOR SUN, MOON, VENUS, SATURN, AND JUPITER
N63-17010 15-29

AERONAUTICAL & ASTRONAUTICAL TABLES - SEPT. TO DEC. 1963 N63-20275 20-05

INSTRUMENT CORP. OF FLORIDA, MELBOURNE.
CENTER OF PROJECTION OF CAMERA IN OBJECT SPACE - OPTICS
AFCRL-63-481 N63-17073 15-23

INTER-AMERICAN NUCLEAR ENERGY COMMISSION, WASHINGTON, D.C.
PEACEFUL APPLICATION OF NUCLEAR ENERGY - PHYSICS, ENGINEERING, AND GEOLOGY - VOL II
N63-18275 17-01

PEACEFUL APPLICATION OF NUCLEAR ENERGY - PHYSICS, ENGINEERING, AND GEOLOGY - VOL I
N63-18296 17-01

INTERCHEMICAL CORP., NEW YORK, N.Y.
ORGANIC POLYMERS AS SEMICONDUCTORS
N63-12181 05-25

INTERNATIONAL ASTRONAUTICAL FEDERATION, PARIS /FRANCE/.
SPACE SCIENCE - PERFECTING THE COMMUNICATIONS SYSTEM - INTERNATIONAL COOPERATION AND RADIO ASTRONOMY N63-17053 15-08

INTERNATIONAL ASTRONOMICAL UNION, HAILSHAM /GT. BRIT./
ASTRONOMY - STARS, STELLAR EVOLUTION, AND EXTRA-GALACTIC RESEARCH
NASA-CR-50238 N63-17792 16-05

INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA /AUSTRIA/.
CONFERENCE ON PLASMA PHYSICS & CONTROLLED NUCLEAR FUSION RESEARCH, AUSTRIA - SEPT 1961
N63-13126 07-24

PLASMA PHYSICS THERMONUCLEAR FUSION CONFERENCE - REPORTS AND ANSTRACTS - PART 2
N63-13127 07-24

INTERNATIONAL BUSINESS MACHINES CORP., KINGSTON, N.Y.
THIN FILM PRODUCTION TECHNIQUE
N63-10160 01-17

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J. G. ENGINEERING RESEARCH ASSOCIATES, BALTIMORE, MD.
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CHEMICAL ANALYSES OF GLACIER ICE & TROPOSPHERIC WASHOUT TO DETERMINE CHEMICAL TRACE CONCENTRATION
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JOHN B. PIERCE FOUNDATION OF CONNECTICUT, NEW HAVEN.
HYPOTHALAMIC TEMPERATURES IN DOGS AND MONKEYS AND THERMOREGULATORY RESPONSES TO ENVIRONMENTAL FACTORS
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JOHNS HOPKINS U., BALTIMORE, MD.
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HIGH ENERGY PHYSICS STUDY OF NUCLEAR PARTICLES BY PHOTOGRAPHIC NUCLEAR EMULSION AND HELIUM BUBBLE CHAMBER
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ATMOSPHERIC MECHANICS - PRECIPITATION AND MOISTURE FLUX, LARGE-SCALE SPECTRA, MEAN WIND STABILITY, SHEAR FLOW, AND QUASI-LAGRANGIAN FLOW COORDINATES
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TRANSPORT OF RADIONUCLIDES IN FRESH WATER SYSTEM
TID-7664 N63-23783 24-23

JOHNS HOPKINS U., SILVER SPRING, MD.
COMPUTER PROGRAM NOMENCLATURE STANDARDIZATION
CPIA PUBL. 28 N63-22358 23-26

JOHNS-MANVILLE RESEARCH CENTER, MANVILLE, N.J.
THERMAL PERFORMANCE OF RIGID INSULATIONS AT CRYOGENIC TEMPERATURES N63-16061 13-13

JOHNSON SERVICE CO., MILWAUKEE, WIS.
PROPORTIONAL POWER STAGES FOR IMPEDANCE MATCHING FLUID AMPLIFIER OF THREE DIMENSIONAL TYPE
N63-13404 08-11

JOINT PARACHUTE TEST FACILITY, EL CENTRO, CALIF.
PARACHUTE TEST FACILITY - DESCRIPTION & OPERATION
FIC-TIR-63-2001 N63-17693 16-10

JOINT PUBLICATIONS RESEARCH SERVICE, NEW YORK, N.Y.
AIR TEMPERATURE MEASUREMENT - THERMODYNAMIC DETERMINATIONS
RSIC-31 N63-19755 19-21

DIURNAL VARIATIONS IN ATMOSPHERIC PRESSURE & CHANGES IN AIR TEMPERATURE
RSIC-39 N63-19796 19-21

JOINT PUBLICATIONS RESEARCH SERVICE, WASHINGTON, D.C.
SOVIET PATENTS ON ACOUSTICAL AND MAGNETIC MEASURING INSTRUMENTS
JPRS-16134 N63-10077 01-15

SOVIET SPACE EXPLORATION
JPRS-16187 N63-10320 01-32

MEDICO-BIOLOGICAL CONTROL IN COSMIC FLIGHT
JPRS-16205 N63-10363 01-16

IMPROVEMENTS IN THE GAK-2M GRAVIMETER
JPRS-16197 N63-10364 01-15

CYBERNETICS AND THEORY OF CONTROL SYSTEMS

JPRS-16239 N63-10365 01-20

SOVIET BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE SCIENCES /NO. 48/ 1962
JPRS-16455 N63-10526 01-01

COMPUTER ENGINEERING AND MATHEMATICS
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SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE SCIENCES /NO. 29/ 1962
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. SPACE TASK GROUP, LANGLEY STATION, VA.
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NATIONAL BUREAU OF STANDARDS, BOULDER, COLO.
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MEAN ELECTRON DENSITY VARIATIONS OF THE QUIET IONOSPHERE, OCT. 1959
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THERMOPHYSICAL PROPERTIES OF OXYGEN AT LOW TEMPERATURE - BIBLIOGRAPHY
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IONOSPHERE - ELECTRON DENSITIES IN D-, E-, AND F-LAYERS RELATED TO RADIO COMMUNICATION - USE OF RADAR AND TOPSOUNDING SATELLITE MEASUREMENTS
N63-23442 24-12

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
STRESS RELAXATION OF FLUOROCARBON ELASTOMERS DURING GAMMA IRRADIATION N63-12705 06-19

INFLUENCE OF GAMMA RADIATION AND ALKALI TREATMENT ON PYROLYSIS OF POLYTRIFLUOROETHYLENE
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VOLATILIZATION AND DECOMPOSITION OF FLUOROPOLYMERS DETERMINED BY PYROLYSIS N63-12806 06-07

BIBLIOGRAPHY ON ATOMIC TRANSITION PROBABILITIES
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NATIONAL COMMITTEE FOR INTERNATIONAL GEOPHYSICAL COORDINATION, SCIENCE COUNCIL OF JAPAN, TOKYO.
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NATIONAL ENGINEERING LAB., EAST KILBRIDE /GT. BRIT./
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NATIONAL NAVAL MEDICAL CENTER, BETHESDA, MD.
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NATIONAL PHYSICAL LAB., NEW DELHI /INDIA/.
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NATIONAL PHYSICAL LAB. OF ISRAEL, JERUSALEM.
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NATIONAL PLANNING INST., CAIRO /EGYPT/.
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NATIONAL RESEARCH AND DEVELOPMENT CORP., ATLANTA, GA.
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NATIONAL RESEARCH CORP., CAMBRIDGE, MASS.
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NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.
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NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
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NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
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NAVAL AVIONICS FACILITY, INDIANAPOLIS, IND.
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NAVAL CIVIL ENGINEERING LAB., PORT HUENEME, CALIF.
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NAVAL MATERIAL LAB., BROOKLYN, N.Y.
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NAVAL MEDICAL RESEARCH INST., BETHESDA, MD.
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NAVAL MEDICAL RESEARCH LAB., GROTON, CONN.
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NAVAL MISSILE CENTER, POINT MUGU, CALIF.
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OFFICE OF NAVAL RESEARCH, WASHINGTON, D.C.
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SCIENCE COUNCIL OF JAPAN, TOKYO.
MOLECULAR STRUCTURE AND SPECTROSCOPY - SYMPOSIUM, TOKYO, 1962 N63-11580 04-07

SCRIPTA TECHNICA, INC., WASHINGTON, D.C.
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TECHNICAL INFORMATION SERVICE, WASHINGTON, D.C.
BIBLIOGRAPHY - MOON EXPLORATION
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LINEARIZED THEORY OF THE UNSTEADY MOTION OF A PARTIALLY CAVITATED HYDROFOIL
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TECHNICAL U., COPENHAGEN /DENMARK/.
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RADIATION PATTERN FROM VERTICAL DIPOLE IN FORM OF PARAMETRIC CURVES
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TECHNICAL U. OF NORWAY, TRONDHEIM.
WAVE RESISTANCE AND MOMENT VALUES FOR SUBMERGED RANKINE SOLID UNDER INTERFACIAL WAVE CONDITIONS
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TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD., HAIFA /ISRAEL/.
BUCKLING OF CONICAL SHELLS UNDER EXTERNAL TORSION, PRESSURE, AND AXIAL COMPRESSION
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TECHNISCHE HOCHSCHULE CAROLO WILHELMINA, BRUNSWICK /W. GERMANY/.
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TECHNISCHE HOCHSCHULE DARMSTADT /W. GERMANY/.
DOUBLE CARRIER CURVE METHOD FOR STUDY OF WINGS NEAR THE GROUND
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IBM 704 COMPUTATION OF AIR TRAJECTORIES IN BOUNDARY OF ATMOSPHERIC TURBULENCE - WIND VELOCITY
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DYNAMIC LONGITUDINAL STABILITY OF AIRCRAFT WITH FUSELAGE CONTROLS N63-20152 20-04

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TECHNISCHE HOCHSCHULE HANNOVER /W. GERMANY/.
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TECHNISCHE HOCHSCHULE MUNCHEN /W. GERMANY/.
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TECHNISCHE HOCHSCHULE STUTTGART /W. GERMANY/.
THE MAXIMUM PRINCIPLE AND THE OPTIMIZATION OF FLIGHT MECHANICS
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AUTOMATIC COUPLING CHART AK3J - NAVIGATION AID FOR AIRCRAFT WITHOUT NAVIGATORS
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SHROUDED PROPELLER TESTING STAND
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SHROUDED PROPELLER TESTING STAND
N63-20128 20-03

NONLINEAR PROBLEMS OF FLIGHT CONTROL - STABILITY AND CONTROL N63-20154 20-04

PULSED DISCHARGE IN NITROGEN AND HYDROGEN HIGHLY IONIZED PLASMAS
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TECHNISCHE U. BERLIN /W. GERMANY/.
MEASUREMENT OF TURBULENT SKIN-FRICTION WITH THE PRESTON TUBE
WGL PAPER-71 N63-10064 01-11

PRESTON TUBE FOR LOCAL SURFACE SHEARING STRESS OF FRICTION LAYER N63-20809 21-15

TECHNOLOGICAL U., DELFT /NETHERLANDS/.
INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS N63-10831 02-33

TECHNOLOGY, INC., DAYTON, OHIO.
EFFECT OF CHANGING SCALE UPON DRAG COEFFICIENT, FILLING TIME, PEAK OPENING FORCE FOR PARACHUTE
ASD-TDR-62-1023 N63-13009 07-03

WIND TUNNEL STUDY OF PARACHUTE CLUSTERING - STATIC STABILITY & DRAG COEFFICIENT OF MULTIPLE CANOPIES
ASD-TDR-63-159 N63-18332 17-03

TELECOMPUTING CORP., DENVER, COLO.
LONG LIFE, DEEP CYCLIC, SEALED SILVER-CADMIUM BATTERY
ASD-TDR-63-560 N63-21712 22-06

TELECOMPUTING CORP., SAN DIEGO, CALIF.
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N63-10359 01-19

PERFORMANCE OF PLASTIC LAMINATES UNDER CRYOGENIC TEMPERATURES
ASD-TDR-62-794 N63-10516 01-19

PERFORMANCE OF LAMINATED PLASTIC MATERIALS AT CRYOGENIC TEMPERATURES - EPOXY RESIN MATERIALS TESTS N63-15644 12-19

TELEFUNKEN RESEARCH LAB., ULM/DONAU /W. GERMANY/.
ELECTRONIC APPARATUS RELIABILITY FOR CIVILIAN AND MILITARY AVIATION AND SPACEFLIGHT
N63-20483 20-09

TELETYPE CORP., CHICAGO, ILL.
VOICE AND DATA COMMUNICATION - ASA X3.2 CODE
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TEMCO ELECTRONICS, DALLAS, TEX.
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TEMPLE U., PHILADELPHIA, PA.
VOLTAGE MEASUREMENTS IN PRESENCE OF STRONG FIELDS BY ELECTRONIC CANCELLATION OF INDUCED VOLTAGES - EXPLODING WIRE
AFCRL-63-218 N63-13726 08-09

OXYGEN FLUORIDE REACTIONS - DIOXYGEN DIFLUORIDE SUBSTITUTION & ADDITION PRODUCTS, ELECTRIC SPARK PREPARATION OF XENON AND KRYPTON TETRAFLUORIDES
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TENNESSEE U., OAK RIDGE.
CLINICAL ASPECTS OF RADIATION DAMAGE TO ANIMALS
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TEXACO CORP., BEACON, N.Y.
ABLATION MECHANISMS OF CHARRING POLYMERS DURING HYPERSONIC REENTRY N63-10099 01-19

TEXACO EXPERIMENT INC., RICHMOND, VA.
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STATISTICAL EVALUATION OF LOW ORDER DISTRIBUTION FUNCTIONS AND THERMODYNAMIC PROPERTIES OF NONUNIFORM EQUILIBRIUM FLOW
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AFCRL-63-294	N63-16829	14-12
AFCRL-63-296	N63-17633	16-12
AFCRL-63-297	N63-14362	10-20
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AFCRL-63-303	N63-21421	22-19
AFCRL-63-305	N63-21260	21-23
AFCRL-63-307	N63-22046	22-09
AFCRL-63-308	N63-22833	23-19
AFCRL-63-309	N63-21463	22-19
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AFCRL-63-314	N63-20412	20-25
AFCRL-63-315	N63-23578	24-09
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AFCRL-63-332	N63-23701	24-08
AFCRL-63-336	N63-22081	22-09
AFCRL-63-340	N63-22556	23-20
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AFCRL-63-353	N63-21800	22-09
AFCRL-63-354	N63-22654	23-11
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AFCRL-63-358	N63-22734	23-23
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AFCRL-63-447	N63-15492	12-09
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AFSWC-TDR-62-117	N63-10670	02-17
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	AROD-3136-1	N63-20674	20-33
	AROD-3156-1	N63-12802	06-07
	AROD-3187-2	N63-21444	22-23
	AROD-3209-2	N63-18148	16-25
	AROD-3227-1	N63-23435	24-11
	AROD-3251-1	N63-14075	09-23
	AROD-3263-7	N63-23056	24-19
	AROD-3301-1	N63-20224	20-07
	AROD-3309-2	N63-15737	12-23
	AROD-3318-11	N63-23173	24-23
	AROD-3323-2	N63-19405	19-23
	AROD-3323-3	N63-23167	24-25
	AROD-3331-2	N63-18900	18-24
	AROD-3394-1	N63-12315	05-18
	AROD-3493-2	N63-21944	22-11
	AROD-3496-1	N63-13057	07-23
	AROD-3560-1	N63-21850	22-25
	AROD-3764-1	N63-17151	15-23
	AROD-3772-1	N63-19312	18-20
	AROD-3887-1	N63-20708	21-25
	AROD-3975-1	N63-20145	20-15
	AROD-4049-11	N63-19146	18-08
	AROD-N-62.4	N63-14611	10-31
	ARPA-E6	N63-17177	15-33
	ARS PAPER-1425-60	N63-21341	21-32
	ARS PAPER-2376-62	N63-10531	01-24
	ARS PAPER-2381-62	N63-15087	11-27
	ARS PAPER-2390-62	N63-10803	02-29
	ARS PAPER-2464-62	N63-10251	01-29
	ARS PAPER-2498-62	N63-10252	01-06
	ARS PAPER-2499-62	N63-10253	01-06
	ARS PAPER-2502-62	N63-10254	01-06
	ARS PAPER-2504-62	N63-10255	01-06
	ARS PAPER-2505-62	N63-10256	01-06
	ARS PAPER-2508-62	N63-10257	01-06
	ARS PAPER-2509-62	N63-10258	01-06
	ARS PAPER-2510-62	N63-10259	01-06
	ARS PAPER-2514-62	N63-10326	01-26
	ARS PAPER-2522-62	N63-10260	01-06
	ARS PAPER-2531-62	N63-10261	01-06
	ARS PAPER-2535-62	N63-10262	01-06
	ARS PAPER-2536-62	N63-10263	01-06
	ARS PAPER-2538-62	N63-10264	01-06
	ARS PAPER-2543-62	N63-10265	01-06
	ARS PAPER-2545-62	N63-10266	01-06
	ARS PAPER-2547-62	N63-10267	01-06
	ARS PAPER-2548-62	N63-10268	01-06
	ARS PAPER-2550-62	N63-10269	01-06
	ARS PAPER-2563-62	N63-10270	01-06
	ARS PAPER-2564-62	N63-10271	01-06
	ARS PAPER-2566-62	N63-10272	01-06
	ARS PAPER-2567-62	N63-10273	01-06
	ARS PAPER-2571-62	N63-10274	01-06
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	ARS PAPER-2603-62	N63-11251	03-05
	ARS PAPER-2604-62	N63-11252	03-29
	ARS PAPER-2617-62	N63-11253	03-30
	ARS PAPER-2619-62	N63-11254	03-09
	ARS PAPER-2620-62	N63-11255	03-09
	ARS PAPER-2622-62	N63-11256	03-29
	ARS PAPER-2623-62	N63-11257	03-29
	ARS PAPER-2625-62	N63-11258	03-29
	ARS PAPER-2626-62	N63-11259	03-29
	ARS PAPER-2633-62	N63-11260	03-24
	ARS PAPER-2644-62	N63-11261	03-16
	ARS PAPER-2647-62	N63-11262	03-14
	ARS PAPER-2649-62	N63-11263	03-27
	ARS PAPER-2650-62	N63-11264	03-27
	ARS PAPER-2652-62	N63-11265	03-27

ARS PAPER-2654-62	N63-11266	03-27
ARS PAPER-2663-62	N63-11267	03-27
ARS PAPER-2664-62	N63-11268	03-27
ARS PAPER-2665-62	N63-11269	03-11
ARS PAPER-2666-62	N63-11270	03-29
ARS PAPER-2675-62	N63-13465	08-11
ARS PAPER-2678-62	N63-11271	03-21
ARS PAPER-2686-62	N63-11272	03-29
ARS PAPER-2690-62	N63-11273	03-26
ARS PAPER-2691-62	N63-11274	03-29
ARS PAPER-2692-62	N63-11275	03-09
ARS PAPER-2694-62	N63-11276	03-31
ARS PAPER-2695-62	N63-11277	03-22
ARS PAPER-2711-62	N63-11278	03-17
ARTC-30	N63-11182	03-10
AS-63-1	N63-18798	18-02
AS-63-2	N63-19824	19-11
AS-63-3	N63-20947	21-02
AS-286-591	N63-14847	11-24
ASA-C85.1-1963	N63-20010	19-09
ASC-TR-7-827/III/	N63-16964	14-18
ASC-TR-7-827/IV/	N63-16965	14-18
ASC-TR-7-827/V/	N63-16966	14-18
ASC-TR-7-827/VI/	N63-16967	14-18
ASC-TR-7-827/VII/	N63-16968	14-18
ASC-TR-7-827/VIII/	N63-19893	19-17
ASD-IR-2	N63-18026	16-17
ASD-IR-3	N63-18023	16-17
ASD-IR-4	N63-17945	16-17
ASD-IR-7-865/VI/	N63-21008	21-09
ASD-TDR-7-945/II/	N63-16046	13-34
ASD-TDR-7-945/III/	N63-21702	22-19
ASD-TDR-7-945/IV/	N63-21703	22-18
ASD-TDR-7-946/III/	N63-20414	20-17
ASD-TDR-61-338	N63-15839	13-33
ASD-TDR-61-529	N63-15431	12-18
ASD-TDR-62-8	N63-15710	12-18
ASD-TDR-62-24	N63-13636	08-13
ASD-TDR-62-24, PT. II	N63-20823	21-13
ASD-TDR-62-25, PT. 2	N63-22127	22-18
ASD-TDR-62-42	N63-16114	13-06
ASD-TDR-62-69	N63-10707	02-06
ASD-TDR-62-74	N63-16305	13-25
ASD-TDR-62-78	N63-15508	12-17
ASD-TDR-62-89	N63-16113	13-25
ASD-TDR-62-99	N63-15858	13-18
ASD-TDR-62-163	N63-16107	13-09
ASD-TDR-62-165, VOL. I.	N63-12301	05-15
ASD-TDR-62-165, VOL. II	N63-15879	13-33
ASD-TDR-62-186	N63-15806	13-33
ASD-TDR-62-186, PT. II	N63-18393	17-25
ASD-TDR-62-203, PT. II	N63-15880	13-18
ASD-TDR-62-204,PT.II	N63-19471	19-18
ASD-TDR-62-214	N63-10438	01-06
ASD-TDR-62-225	N63-15422	12-19
ASD-TDR-62-225, PT. II	N63-18634	17-19
ASD-TDR-62-230	N63-10294	01-18
ASD-TDR-62-233	N63-13197	07-25
ASD-TDR-62-237	N63-10882	02-33
ASD-TDR-62-267	N63-14993	11-04
ASD-TDR-62-279	N63-10749	02-34
ASD-TDR-62-284	N63-10473	01-33
ASD-TDR-62-292	N63-10704	02-18
ASD-TDR-62-320	N63-16302	13-24
ASD-TDR-62-323	N63-15034	11-17
ASD-TDR-62-329	N63-10756	02-18
ASD-TDR-62-354	N63-12284	05-18
ASD-TDR-62-354, PT. II	N63-17672	16-18
ASD-TDR-62-360	N63-16259	13-02
ASD-TDR-62-362	N63-13544	08-20
ASD-TDR-62-373	N63-10744	02-06
ASD-TDR-62-375	N63-10877	02-23
ASD-TDR-62-379	N63-15827	13-33
ASD-TDR-62-396	N63-10745	02-18
ASD-TDR-62-398	N63-10480	01-06
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ASD-TDR-62-409	N63-10471	01-33
ASD-TDR-62-411, PT. I	N63-16115	13-24
ASD-TDR-62-416	N63-12710	06-19
ASD-TDR-62-427	N63-13755	08-07
ASD-TDR-62-431	N63-14848	11-18
ASD-TDR-62-442	N63-16116	13-18
ASD-TDR-62-451	N63-11330	03-26
ASD-TDR-62-459	N63-14775	11-24
ASD-TDR-62-461	N63-10148	01-10
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ASD-TDR-62-463	N63-10133	01-02
ASD-TDR-62-470	N63-13518	08-20
ASD-TDR-62-479, PT. I	N63-18186	16-18
ASD-TDR-62-479, PT. II	N63-18637	17-18
ASD-TDR-62-479, PART I	N63-20294	20-18
ASD-TDR-62-479, PART II	N63-20295	20-18
ASD-TDR-62-501	N63-10663	02-33
ASD-TDR-62-507	N63-11785	04-06
ASD-TDR-62-508	N63-12285	05-18
ASD-TDR-62-509, VOL. II	N63-16999	15-18
ASD-TDR-62-513	N63-14338	10-11
ASD-TDR-62-522	N63-15030	11-06
ASD-TDR-62-522, APPEND.	N63-15188	11-06
ASD-TDR-62-526	N63-10149	01-26
ASD-TDR-62-526, PT. II	N63-18899	18-07
ASD-TDR-62-534	N63-16045	13-18
ASD-TDR-62-535	N63-15064	11-18
ASD-TDR-62-540	N63-16102	13-07
ASD-TDR-62-553	N63-10422	01-06
ASD-TDR-62-561	N63-14056	09-18
ASD-TDR-62-575	N63-10741	02-07
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ASD-TDR-62-583	N63-11341	03-16
ASD-TDR-62-594, PT. II	N63-17882	16-18
ASD-TDR-62-600	N63-10616	02-06
ASD-TDR-62-606	N63-19738	19-28
ASD-TDR-62-608, PT. I	N63-11563	04-13
ASD-TDR-62-614	N63-13505	08-33
ASD-TDR-62-617	N63-11570	04-18
ASD-TDR-62-627	N63-11409	03-30
ASD-TDR-62-650	N63-16332	13-13
ASD-TDR-62-667	N63-12286	05-18
ASD-TDR-62-668	N63-12709	06-06
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ASD-TDR-62-731	N63-15372	12-19
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ASD-TDR-62-781	N63-10662	02-17
ASD-TDR-62-787	N63-16370	14-23
ASD-TDR-62-792, VOL. I	N63-18107	16-11
ASD-TDR-62-792, VOL. II	N63-15882	13-11
ASD-TDR-62-793	N63-11923	04-15
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ASD-TDR-62-829	N63-14058	09-33
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ASD-TDR-62-834	N63-17883	16-33
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ASD-TDR-62-899	N63-16064	13-06
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ASD-TDR-62-973	N63-13063	07-33
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ASD-TDR-62-1018	N63-15750	12-18
ASD-TDR-62-1023	N63-13009	07-03

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ASD-TDR-62-1029	N63-15713	12-33
ASD-TDR-62-1030	N63-17181	15-33
ASD-TDR-62-1031	N63-16578	14-33
ASD-TDR-62-1040	N63-16486	14-07
ASD-TDR-62-1041	N63-12170	05-26
ASD-TDR-62-1042	N63-12171	05-26
ASD-TDR-62-1067	N63-15808	13-07
ASD-TDR-62-1075	N63-14649	10-18
ASD-TDR-62-1078	N63-19884	19-24
ASD-TDR-62-1086	N63-18028	16-18
ASD-TDR-62-1087, PT. I	N63-13209	07-18
ASD-TDR-62-1096	N63-13490	08-33
ASD-TDR-62-1098	N63-13491	08-34
ASD-TDR-62-1102	N63-16117	13-02
ASD-TDR-62-1105	N63-13757	08-27
ASD-TDR-62-1111	N63-14245	10-18
ASD-TDR-63-37	N63-22902	23-24
ASD-TDR-63-41	N63-22638	23-23
ASD-TDR-63-46	N63-23427	24-02
ASD-TDR-63-54	N63-17473	15-06
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ASD-TDR-63-74	N63-14102	09-22
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ASD-TDR-63-91	N63-14055	09-10
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ASD-TDR-63-154	N63-16402	14-10
ASD-TDR-63-159	N63-18332	17-03
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ASD-TDR-63-204	N63-18627	17-18
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ASD-TDR-63-221	N63-15325	12-33
ASD-TDR-63-230	N63-18106	16-10
ASD-TDR-63-232	N63-16455	14-18
ASD-TDR-63-233	N63-16400	14-30
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ASD-TDR-63-245	N63-19463	19-33
ASD-TDR-63-252	N63-17021	15-33
ASD-TDR-63-267	N63-15961	13-33
ASD-TDR-63-273	N63-16712	14-07
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ASD-TDR-63-288	N63-18680	17-15
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ASD-TDR-63-296	N63-15881	13-18
ASD-TDR-63-297	N63-16905	14-18
ASD-TDR-63-306	N63-16996	15-23
ASD-TDR-63-309, PT. I	N63-16925	14-18
ASD-TDR-63-322	N63-18116	16-07
ASD-TDR-63-325	N63-22130	22-07
ASD-TDR-63-329	N63-23314	24-01
ASD-TDR-63-334, PT. I	N63-21694	22-02
ASD-TDR-63-334, PT. II	N63-21693	22-02
ASD-TDR-63-334, PT. III	N63-21692	22-02
ASD-TDR-63-334, PT. VI	N63-21691	22-02
ASD-TDR-63-343, PT. I	N63-19777	19-18
ASD-TDR-63-358	N63-19041	18-18
ASD-TDR-63-360	N63-16904	14-18
ASD-TDR-63-361	N63-18088	16-18
ASD-TDR-63-371	N63-20118	20-25
ASD-TDR-63-380	N63-20703	21-33
ASD-TDR-63-404	N63-19333	18-13
ASD-TDR-63-411	N63-20305	20-33
ASD-TDR-63-428, PT. I	N63-22446	23-27
ASD-TDR-63-428, PT. II	N63-22445	23-27
ASD-TDR-63-442	N63-21788	22-09
ASD-TDR-63-454	N63-22591	23-29
ASD-TDR-63-456	N63-18783	18-10
ASD-TDR-63-459	N63-21802	22-19
ASD-TDR-63-473	N63-18802	18-18
ASD-TDR-63-474	N63-19464	19-17
ASD-TDR-63-490	N63-20771	21-33
ASD-TDR-63-491	N63-22391	23-17
ASD-TDR-63-493	N63-18787	18-18
ASD-TDR-63-509, PT. I	N63-21302	21-18
ASD-TDR-63-515	N63-21441	22-33
ASD-TDR-63-516, VOL. I	N63-20239	20-06
ASD-TDR-63-530	N63-23132	24-13
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ASD-TDR-63-560	N63-21712	22-06
ASD-TDR-63-565	N63-20417	20-17
ASD-TDR-63-567	N63-23112	24-18
ASD-TDR-63-574	N63-22592	23-13
ASD-TDR-63-601	N63-19887	19-17
ASD-TDR-63-605, PT. I	N63-21233	21-18
ASD-TDR-63-616	N63-18793	18-07
ASD-TDR-63-635	N63-20007	19-18
ASD-TDR-63-646	N63-21705	22-33
ASD-TDR-63-647	N63-22593	23-33
ASD-TDR-63-674	N63-22486	23-33
ASD-TDR-63-707	N63-23692	24-23
ASD-TDR-63-716	N63-21300	21-17
ASD-TDR-63-723	N63-23693	24-23
ASD-TDR-63-750	N63-22400	23-27
ASD-TDR-63-753, PT. I	N63-23407	24-18
ASD-TDR-63-789	N63-23663	24-18
ASD-TDR-63-798	N63-22903	23-18
ASD-TDR-63-802	N63-23365	24-13
ASD-TDR-63-845	N63-23137	24-08
ASD-TDR-63-852, VOL. I	N63-22485	23-33
ASD-TDR-63-866	N63-23088	24-16
ASD-TDR-763	N63-10091	01-34
ASD-TN-61-101	N63-11568	04-20
ASD-TN-61-117, PT. IV	N63-18721	17-33
ASD-TN-61-156	N63-12751	06-15
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ASD-TR-7-532A/V/	N63-14882	11-18
ASD-TR-7-532A/VI/	N63-14883	11-18
ASD-TR-7-532A/VII/	N63-14884	11-18
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ATN-63/9220/-6	N63-19727	19-11
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BAW-2168	N63-17445	15-23
BB-311	N63-12215	05-20
BB-316	N63-14270	10-11
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BBE63-002	N63-15369	12-26
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BM-RI-6001	N63-17885	16-07
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BM-RI-6080	N63-17887	16-07
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BM-RI-6101	N63-10127	01-18
BM-RI-6111	N63-11691	04-15
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BM-RI-6116	N63-10410	01-18
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BM-RI-6142	N63-11854	04-19
BM-RI-6143	N63-11332	03-23
BM-RI-6147	N63-11734	04-23
BM-RI-6148	N63-11855	04-07
BM-RI-6149	N63-11961	05-15
BM-RI-6151	N63-12349	05-12

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BM-RI-6157	N63-12432	06-19
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BM-RI-6177	N63-12781	06-19
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BM-RI-6200	N63-13536	08-23
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BM-RI-6232	N63-17621	16-18
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BM-RI-6255	N63-18380	17-13
BM-RI-6256	N63-18719	17-18
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BM-RI-6262	N63-18901	18-18
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BM-RI-6308	N63-22235	23-18
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BMI-1637	N63-18838	18-17
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BN-301	N63-12042	05-24
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BRN-2-P	N63-10093	01-23
BRN-3-P	N63-11774	04-23
BRN-4-P	N63-16407	14-11
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C-646943	N63-14891	11-19
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RADC-TDR-62-420	N63-10512	01-15
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RADC-TDR-62-554	N63-11410	03-08
RADC-TDR-62-585	N63-12787	06-19
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RADC-TDR-62-604	N63-14849	11-16
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RADC-TDR-63-189	N63-21239	21-09
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RADC-TDR-63-238	N63-19329	18-25
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RADC-TDR-63-242	N63-19534	19-13
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RADC-TDR-63-256	N63-19779	19-08
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RADC-TDR-63-265	N63-18785	18-09
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RADC-TDR-63-287	N63-21677	22-09
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N63-10057	01-03	WGL PAPER-62
N63-10058	01-16	WGL PAPER-63
N63-10059	01-16	WGL PAPER-64
N63-10060	01-16	WGL PAPER-65
N63-10061	01-16	WGL PAPER-66
N63-10062	01-03	WGL PAPER-68
N63-10063	01-06	WGL PAPER-70
N63-10064	01-11	WGL PAPER-71
N63-10065	01-04	WGL PAPER-73
N63-10066	01-33	HP-214
N63-10067	01-03	HP-215
N63-10068	01-02	BSD-TDR-62-105
N63-10069	01-12	AFCRL-62-1001
N63-10070	01-23	MURA-644
N63-10071	01-23	MURA-645
N63-10072	01-34	DAC-31041
N63-10073	01-19	CDRL-SP-4-34
N63-10074	01-10	UCRL-7036, PT. 8
N63-10075	01-14	AMRL-TDR-62-100
N63-10076	01-20	SDR-62-1
N63-10077	01-15	JPRS-16134
N63-10078	01-19	RS-277
N63-10079	01-30	JPL-TR-32-303
N63-10080	01-09	R-151
N63-10081	01-09	R-153
N63-10082	01-24	DI-82-0192
N63-10083	01-08	NO REPORT NUMBER
N63-10084	01-17	NO REPORT NUMBER
N63-10085	01-33	NO REPORT NUMBER
N63-10086	01-33	NO REPORT NUMBER
N63-10087	01-26	PA-TM-1001
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N63-10089	01-11	FLIGHT SCIENCES LAB. TM-8
N63-10090	01-07	NO REPORT NUMBER
N63-10091	01-34	ASD-TDR-763
N63-10092	01-13	BRN-1-P
N63-10093	01-23	BRN-2-P
N63-10094	01-01	AMRL-TDR-62-85
N63-10095	01-11	BSD-TDR-62-107
N63-10096	01-17	MTI-62TR20
N63-10097	01-20	NO REPORT NUMBER
N63-10098	01-22	NO REPORT NUMBER
N63-10099	01-19	NO REPORT NUMBER
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N63-10103	01-18	GEMP-17A
N63-10104	01-28	AFCRL-62-651
N63-10105	01-28	AFCRL-62-652
N63-10106	01-28	AFCRL-62-674
N63-10107	01-28	AFCRL-62-675
N63-10108	01-22	AFCRL-62-744
N63-10109	01-13	BSD-TDR-62-165
N63-10110	01-18	NAVWEPS-7390
N63-10111	01-19	NOLTR-62-1
N63-10112	01-19	RDR-1266-6
N63-10113	01-33	SURI-TR-834/11/ NO. 4
N63-10114	01-04	NAMC-ACEL-488
N63-10115	01-23	UCRL-7032
N63-10116	01-20	AFCRL-62-397
N63-10117	01-28	AFCRL-62-1010
N63-10118	01-29	AFCRL-62-1031
N63-10119	01-28	AFCRL-62-1044
N63-10120	01-23	AFCRL-62-1045
N63-10121	01-23	AFCRL-62-1046
N63-10122	01-29	AFCRL-62-1049
N63-10123	01-23	AFCRL-62-1065
N63-10124	01-27	GAMD-3629
N63-10125	01-17	MTI-62TR22
N63-10126	01-18	BM-RI-6095
N63-10127	01-18	BM-RI-6101
N63-10128	01-15	ARL-62-406
N63-10129	01-23	NO REPORT NUMBER
N63-10130	01-32	AMRL-TDR-62-103
N63-10131	01-15	AEDC-TDR-62-213
N63-10132	01-13	AEDC-TDR-62-218
N63-10133	01-02	ASD-TDR-62-463
N63-10134	01-12	AFCRL-62-902
N63-10135	01-12	AFCRL-62-903
N63-10136	01-15	AFCRL-62-550
N63-10137	01-09	AFCRL-62-320
N63-10138	01-11	ARC-19865
N63-10139	01-02	ARC-CP-611
N63-10140	01-26	NOLTR-61-29
N63-10141	01-23	UCRL-10294
N63-10142	01-29	ARF-1200-3

N63-10143	01-29	JPL-TR-32-293
N63-10144	01-17	R-3703-2
N63-10145	01-09	AFCRL-62-905
N63-10146	01-23	AFCRL-62-162
N63-10147	01-12	AFCRL-62-734
N63-10148	01-10	ASD-TDR-62-461
N63-10149	01-26	ASD-TDR-62-526
N63-10150	01-23	ASD-TDR-62-683
N63-10151	01-16	AMRL-TDR-62-91
N63-10152	01-16	AMRL-TDR-62-98/I/
N63-10153	01-02	HSA-86
N63-10154	01-18	R-1652
N63-10155	01-11	STR-MAR-100
N63-10156	01-20	AROD-2763-12
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N63-10158	01-23	GEAP-3766
N63-10159	01-23	NO REPORT NUMBER
N63-10160	01-17	NO REPORT NUMBER
N63-10161	01-34	TO-B-62-3
N63-10162	01-17	RIA-62-3183
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N63-10164	01-08	NO REPORT NUMBER
N63-10165	01-01	NO REPORT NUMBER
N63-10166	01-20	NO REPORT NUMBER
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N63-10168	01-12	NO REPORT NUMBER
N63-10169	01-17	NO REPORT NUMBER
N63-10170	01-19	PLASTEC-12
N63-10171	01-07	NO REPORT NUMBER
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N63-10174	01-25	NASA-TN-D-1438
N63-10175	01-13	NASA-TN-D-1440
N63-10176	01-15	NASA-TN-D-1451
N63-10177	01-08	NASA-TN-D-1471
N63-10178	01-02	NASA-TN-D-1497
N63-10179	01-33	NASA-TN-D-1513
N63-10180	01-06	NASA-TN-D-1532
N63-10181	01-14	NASA-TN-D-1552
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N63-10184	01-14	AMRL-TDR-62-93
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N63-10186	01-16	AMRL-TDR-62-119
N63-10187	01-16	AMRL-TDR-62-120
N63-10188	01-33	ASRL-TR-94-4
N63-10189	01-12	RAD-TM-62-E8
N63-10190	01-20	AFCRL-62-770
N63-10191	01-12	AFCRL-62-1018
N63-10192	01-16	NADC-MA-6212
N63-10193	01-16	NADC-MA-6213
N63-10194	01-17	ASD-TR-61-705
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N63-10201	01-22	NASA-TN-D-1528
N63-10202	01-20	NASA-TN-D-1590
N63-10203	01-14	AMRL-TDR-62-105
N63-10204	01-15	NASA-TN-D-1097
N63-10205	01-33	NASA-TN-D-1485
N63-10206	01-11	NASA-TN-D-1507
N63-10207	01-13	NASA-TN-D-1550
N63-10208	01-15	SELWS-E-104
N63-10209	01-21	NSSP-9
N63-10210	01-07	AEC-TR-4501
N63-10211	01-05	NO REPORT NUMBER
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N63-10213	01-15	BRL-MEMO-1425
N63-10214	01-07	AFCRL-62-1016
N63-10215	01-11	NO REPORT NUMBER
N63-10216	01-11	NO REPORT NUMBER
N63-10217	01-09	AMC-RG-TR-62-4
N63-10218	01-11	JPL-TR-32-344
N63-10219	01-04	NASA-TR-T-124
N63-10220	01-05	NO REPORT NUMBER
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N63-10244	01-32	NO REPORT NUMBER
N63-10245	01-29	JPL-TR-32-251
N63-10246	01-20	JPL-TR-32-252, ADD.
N63-10247	01-23	JPL-TR-32-34
N63-10248	01-27	JPL-TR-32-30
N63-10249	01-08	JPL-TR-32-30
N63-10250	01-25	JPL-TR-32-30
N63-10251	01-29	ARS PAPER-2464-62
N63-10252	01-06	ARS PAPER-2498-62
N63-10253	01-06	ARS PAPER-2499-62
N63-10254	01-06	ARS PAPER-2502-62
N63-10255	01-06	ARS PAPER-2504-62
N63-10256	01-06	ARS PAPER-2505-62
N63-10257	01-06	ARS PAPER-2508-62
N63-10258	01-06	ARS PAPER-2509-62
N63-10259	01-06	ARS PAPER-2510-62
N63-10260	01-06	ARS PAPER-2522-62
N63-10261	01-06	ARS PAPER-2531-62
N63-10262	01-06	ARS PAPER-2535-62
N63-10263	01-06	ARS PAPER-2536-62
N63-10264	01-06	ARS PAPER-2538-62
N63-10265	01-06	ARS PAPER-2543-62
N63-10266	01-06	ARS PAPER-2545-62
N63-10267	01-06	ARS PAPER-2547-62
N63-10268	01-06	ARS PAPER-2548-62
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N63-10270	01-06	ARS PAPER-2563-62
N63-10271	01-06	ARS PAPER-2564-62
N63-10272	01-06	ARS PAPER-2566-62
N63-10273	01-06	ARS PAPER-2567-62
N63-10274	01-06	ARS PAPER-2571-62
N63-10275	01-12	AID-62-16
N63-10276	01-12	AID-62-17
N63-10277	01-21	AID-62-17
N63-10278	01-33	AID-62-18
N63-10279	01-15	AID-62-18
N63-10280	01-23	ARL-62-40
N63-10281	01-23	MRL-12
N63-10282	01-18	DMIC-MEMO-16
N63-10283	01-16	AMRL-TDR-62-9
N63-10284	01-15	AF-9
N63-10285	01-04	DTMB-AERO-101
N63-10286	01-20	AFCRL-62-82
N63-10287	01-20	ARL-62-373, PT.
N63-10288	01-20	ARL-62-373, PT.
N63-10289	01-18	DRI-20
N63-10290	01-15	NO REPORT NUMBE
N63-10291	01-15	ARL-62-41
N63-10292	01-14	AMRL-TDR-62-8
N63-10293	01-14	AMRL-TDR-62-10
N63-10294	01-18	ASD-TDR-62-23
N63-10295	01-12	AFCRL-62-103
N63-10296	01-05	AFCRL-62-80
N63-10297	01-04	FTD-TT-62-451/1&2&3
N63-10298	01-22	FTD-TT-62-1073/1
N63-10299	01-22	NO REPORT NUMBE
N63-10300	01-22	NO REPORT NUMBE
N63-10301	01-09	FTD-TT-62-877/1&2
N63-10302	01-23	FTD-TT-62-981/1
N63-10303	01-05	FTD-TT-62-1076/1
N63-10304	01-08	FTD-TT-62-1140/1
N63-10305	01-09	FTD-TT-61-465/1&2
N63-10306	01-16	FTD-TT-62-1203/1
N63-10307	01-11	FTD-TT-62-1049/1,2
N63-10308	01-16	FTD-TT-62-771/1&2
N63-10309	01-06	MND-P-2483-
N63-10310	01-25	MRL-12
N63-10311	01-18	NMI-952
N63-10312	01-12	SUI-62-23-
N63-10313	01-08	SSD-TDR-62-15
N63-10314	01-03	SUDAER-13
N63-10315	01-25	NO REPORT NUMBE
N63-10316	01-15	USNRDL-TR-54
N63-10317	01-24	MATT-14
N63-10318	01-20	RM-3353-NA
N63-10319	01-24	MATT-14
N63-10320	01-32	JPRS-161
N63-10321	01-09	WPD-
N63-10322	01-16	SAM-TDR-62-7

N63-10323	01-07	ARL-62-426
N63-10324	01-20	NO REPORT NUMBER
N63-10325	01-23	NO REPORT NUMBER
N63-10326	01-26	ARS PAPER-2514-62
N63-10327	01-27	NASA-TN-D-1321
N63-10328	01-32	NASA-TN-D-1511
N63-10329	01-29	NASA-TN-D-1512
N63-10330	01-17	FTD-TT-62-1143/1&2&4
N63-10331	01-24	FTD-TT-62-1187/1&2&4
N63-10332	01-13	JPL-TR-32-269
N63-10333	01-20	JPL-TR-32-337
N63-10334	01-29	JPL-SPS-37-17, VOL. VI
N63-10335	01-29	JPL-TR-32-264
N63-10336	01-11	NASA-TN-D-1439
N63-10337	01-16	MH-AERO-2662-TR2
N63-10338	01-09	FTD-TT-62-973/1&2&4
N63-10339	01-08	FTD-TT-61-351/1&2&4
N63-10340	01-18	FTD-TT-62-1256/1&2
N63-10341	01-27	FTD-TT-61-464/1&2&4
N63-10342	01-08	FTD-TT-62-1139/1&2
N63-10343	01-15	FTD-TT-62-1062/1&2&4
N63-10344	01-13	FTD-TT-62-971/1&2
N63-10345	01-11	FTD-TT-62-1031/1&2&4
N63-10346	01-13	FTD-TT-62-1413/1&2
N63-10347	01-24	FTD-TT-62-1186/1&2&4
N63-10348	01-25	FTD-TT-62-885/1&2&4
N63-10349	01-23	FTD-TT-62-1174/1&2&4
N63-10350	01-20	FTD-TT-62-1149/1&2&4
N63-10351	01-03	FTD-TT-62-1151/1&2&4
N63-10352	01-33	FTD-TT-62-720/1&2&4
N63-10353	01-19	FTD-TT-62-1213/1&2
N63-10354	01-26	FTD-TT-62-1037/1&2&4
N63-10355	01-09	FTD-TT-62-784/1&2
N63-10356	01-23	FTD-TT-62-1391/1&2
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N63-10358	01-17	NO REPORT NUMBER
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N63-10360	01-23	HW-75147
N63-10361	01-24	MATT-133
N63-10362	01-15	NO REPORT NUMBER
N63-10363	01-16	JPRS-16205
N63-10364	01-15	JPRS-16197
N63-10365	01-20	JPRS-16239
N63-10366	01-25	AROD-1931-5
N63-10367	01-25	AROD-2838-1
N63-10368	01-17	FTD-TT-62-789/1&2
N63-10369	01-28	NASA-TN-D-1447
N63-10370	01-01	AM-84
N63-10371	01-32	NO REPORT NUMBER
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N63-10404	01-29	APGC-TDR-62-67
N63-10405	01-23	ITP-74
N63-10406	01-25	NO REPORT NUMBER
N63-10407	01-23	ANL-6603
N63-10408	01-29	AID-62-179
N63-10409	01-10	ARL-62-393
N63-10410	01-18	BN-RI-6116
N63-10411	01-20	BN-296
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N63-10415	01-08	NO REPORT NUMBER
N63-10416	01-09	FTD-TT-62-481/1&2&4
N63-10417	01-33	AFOSR-TN-2256
N63-10418	01-33	AFOSR-1310
N63-10419	01-01	MLM-1129
N63-10420	01-01	MLM-1133
N63-10421	01-01	MLM-1135
N63-10422	01-06	ASD-TDR-62-553
N63-10423	01-20	NWL-1796
N63-10424	01-23	NO REPORT NUMBER
N63-10425	01-26	PA-TR-3013
N63-10426	01-17	NRL-TM-214
N63-10427	01-29	NO REPORT NUMBER
N63-10428	01-05	JPL-TR-32-245
N63-10429	01-09	AFCRL-62-513
N63-10430	01-20	AFSWC-TDR-62-106
N63-10431	01-25	AFCRL-62-774/B/
N63-10432	01-25	AFCRL-62-774/A/
N63-10433	01-16	SAM-62-52
N63-10434	01-20	SAM-62-81
N63-10435	01-12	NO REPORT NUMBER
N63-10436	01-19	CRDL-SP-5-1
N63-10437	01-09	AFCRL-62-110
N63-10438	01-06	GA-2823
N63-10439	01-27	TR-AE-6204
N63-10440	01-32	FTD-TT-62-844/1&2
N63-10441	01-23	FTD-TT-62-1392/1&2
N63-10442	01-23	FTD-TT-62-761/1&2&4
N63-10443	01-23	FTD-TT-62-1218/1&2
N63-10444	01-08	FTD-TT-62-1007/1&2
N63-10445	01-15	FTD-TT-62-1178/1&2
N63-10446	01-22	FTD-TT-62-876/1&2&4
N63-10447	01-13	FTD-TT-62-1175/1&2&4
N63-10448	01-27	FTD-TT-62-1166/1&2
N63-10449	01-24	FTD-TT-62-1219/1&2
N63-10450	01-18	AROD-2205-4
N63-10451	01-16	AMRL-TDR-62-102
N63-10452	01-06	NO REPORT NUMBER
N63-10453	01-08	FTD-TT-62-623/1&2
N63-10454	01-11	TRG-153-SR-1
N63-10455	01-22	SAD-93
N63-10456	01-03	ARC-R&M-3287
N63-10457	01-17	NO REPORT NUMBER
N63-10458	01-13	NO REPORT NUMBER
N63-10459	01-12	NO REPORT NUMBER
N63-10460	01-12	NO REPORT NUMBER
N63-10461	01-23	UCRL-6769
N63-10462	01-08	ERB-619
N63-10463	01-20	RADC-TDR-62-449
N63-10464	01-08	RADC-TDR-62-391
N63-10465	01-23	LAMS-2770
N63-10466	01-03	NA-62-1110
N63-10467	01-16	RAE-TRANS-1011
N63-10468	01-16	AMRL-TDR-62-109
N63-10469	01-16	AMRL-TDR-62-110
N63-10470	01-33	ASD-TDR-62-462
N63-10471	01-33	ASD-TDR-62-409
N63-10472	01-16	AMRL-TDR-62-81
N63-10473	01-33	R-275
N63-10474	01-19	NO REPORT NUMBER
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N63-10476	01-20	NO REPORT NUMBER
N63-10477	01-13	ARL-62-423
N63-10478	01-18	AEC-TR-5264
N63-10479	01-04	A-110052-5
N63-10480	01-06	ASD-TDR-62-398
N63-10481	01-08	ASD-TR-61-553
N63-10482	01-15	EID-119
N63-10483	01-12	SC-4735/RR/
N63-10484	01-23	NO REPORT NUMBER
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N63-10488	01-25	NO REPORT NUMBER
N63-10489	01-23	NO REPORT NUMBER
N63-10490	01-28	AFCRL-62-827
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N63-10492	01-02	NO REPORT NUMBER
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N63-10494	01-27	NASA-TN-D-1126
N63-10495	01-29	NO REPORT NUMBER
N63-10496	01-29	NASA-TN-D-1347
N63-10497	01-20	NO REPORT NUMBER
N63-10498	01-23	NO REPORT NUMBER
N63-10499	01-21	CER-62ERR62
N63-10500	01-24	UCRL-6879
N63-10501	01-23	KAPL-2225
N63-10502	01-07	WIS-TCI-4, SER. 3

N63-10503	01-19	TEAM-234
N63-10504	01-23	UCRL-10477
N63-10505	01-12	RM-3347-NASA
N63-10506	01-26	E173-62
N63-10507	01-25	AFCRL-62-772
N63-10508	01-29	SAO SPECIAL REPT.-103
N63-10509	01-29	SAO SPECIAL REPT.-102
N63-10510	01-29	SAO SPECIAL REPT.-101
N63-10511	01-13	R62SD86
N63-10512	01-15	EOS-2230-Q-2
N63-10513	01-20	NO REPORT NUMBER
N63-10514	01-27	NO REPORT NUMBER
N63-10515	01-13	R62SD72
N63-10516	01-19	ASD-TDR-62-794
N63-10517	01-24	NO REPORT NUMBER
N63-10518	01-23	TID-3525 /REV. 4/
N63-10519	01-23	FTD-TT-62-625/162
N63-10520	01-18	FTD-TT-62-134/1
N63-10521	01-20	FTD-TT-62-871/162
N63-10522	01-08	FTD-TT-62-888/162&4
N63-10523	01-13	AEC-TR-4511
N63-10524	01-16	CARI-62-17
N63-10525	01-33	ARL 62-434
N63-10526	01-01	JPRS-16455
N63-10527	01-08	NO REPORT NUMBER
N63-10528	01-20	NO REPORT NUMBER
N63-10529	01-20	NO REPORT NUMBER
N63-10530	01-11	NO REPORT NUMBER
N63-10531	01-24	ARS PAPER-2376-62
N63-10532	01-33	NASA-TT-F-85
N63-10533	01-04	NASA-TN-D-1509
N63-10534	01-13	NASA-TN-D-1503
N63-10535	01-10	NASA-TN-D-1495
N63-10536	01-32	NASA-TN-D-1558
N63-10537	01-03	NASA-TN-D-1517
N63-10538	01-20	JPRS-16490
N63-10539	01-12	JPRS-16492
N63-10540	01-16	JPRS-16496
N63-10541	01-21	SELWS-M-12
N63-10542	01-23	ORNL-3354
N63-10543	01-04	UTIA-TN-59
N63-10544	01-04	UTIA-TN-60
N63-10545	01-17	S-37
N63-10546	01-14	ROM-2181-1002
N63-10547	01-16	LF-3
N63-10548	01-06	UCRL-7031
N63-10549	01-07	DM-62-238
N63-10550	01-20	R-154
N63-10551	01-15	R-156
N63-10552	01-12	RADC-TDR-62-473
N63-10553	01-32	NO REPORT NUMBER
N63-10554	01-28	NO REPORT NUMBER
N63-10555	01-30	NO REPORT NUMBER
N63-10556	01-23	RADC-TDR-62-528
N63-10557	01-19	WADD-TR-61-72, VOL. X
N63-10558	01-06	ER-4670
N63-10559	01-08	NOLC-562
N63-10560	01-08	NOLC-563
N63-10561	01-23	AFCRL-62-588
N63-10562	01-15	AFCRL-62-1070
N63-10563	01-23	AFCRL-62-1042
N63-10564	01-11	ATN-63/9206/-2
N63-10565	01-12	JPRS-16458
N63-10566	01-11	NO REPORT NUMBER
N63-10567	01-23	NOTS-TP-3021
N63-10568	01-12	NO REPORT NUMBER
N63-10569	01-23	RADC-TDR-62-529
N63-10570	01-23	RADC-TDR-62-531, VOL. 1
N63-10571	01-23	RADC-TDR-62-531, VOL. II
N63-10572	01-23	RADC-TDR-62-530
N63-10573	01-07	TIL/T-5372
N63-10574	01-09	TIL/T-5319
N63-10575	01-21	NO REPORT NUMBER
N63-10576	02-17	JPRS-16410
N63-10577	02-07	JPRS-16405
N63-10578	02-07	JPRS-16409
N63-10579	02-18	JPRS-16269
N63-10580	02-07	FTD-TT-62-1070/162&4
N63-10581	02-07	TIL/T-5331
N63-10582	02-20	JPRS-16124
N63-10583	02-16	JPRS-16407
N63-10584	02-14	NO REPORT NUMBER
N63-10585	02-07	K-1533
N63-10586	02-06	NRL-MEMO-1361, PT. 1
N63-10587	02-23	ORNL-3090
N63-10588	02-06	ER-4108
N63-10589	02-16	LAMS-2780
N63-10590	02-11	TP-52
N63-10591	02-07	TIL/T-5327
N63-10592	02-09	NO REPORT NUMBER
N63-10593	02-07	NO REPORT NUMBER
N63-10594	02-07	NO REPORT NUMBER
N63-10595	02-07	NO REPORT NUMBER
N63-10596	02-05	NO REPORT NUMBER
N63-10597	02-11	DTMB-1603
N63-10598	02-20	R-375-PR
N63-10599	02-33	APGC-TDR-62-59
N63-10600	02-26	NO REPORT NUMBER
N63-10601	02-01	NO REPORT NUMBER
N63-10602	02-03	NO REPORT NUMBER
N63-10603	02-20	ONR-RM-62
N63-10604	02-20	ONR-RM-64
N63-10605	02-16	TID-3909/SUPPL. 17
N63-10606	02-07	TIL/T-5369
N63-10607	02-20	AFCRL-62-1012
N63-10608	02-12	NO REPORT NUMBER
N63-10609	02-12	AFCRL-62-1013
N63-10610	02-16	AMRL-TDR-62-101
N63-10611	02-11	NWL-1794
N63-10612	02-11	NO REPORT NUMBER
N63-10613	02-20	ANL-6319 REV.
N63-10614	02-15	GEMP-75
N63-10615	02-02	HE-150-203
N63-10616	02-06	ASD-TDR-62-600
N63-10617	02-12	AFCRL-62-395
N63-10618	02-24	AMP-93
N63-10619	02-11	HE-150-204
N63-10620	02-11	NO REPORT NUMBER
N63-10621	02-16	JPRS-16227
N63-10622	02-19	JPRS-16158
N63-10623	02-18	JPRS-16167
N63-10624	02-04	NASA-TN-D-1492
N63-10625	02-19	NASA-TN-D-1329
N63-10626	02-14	NASA-TN-D-1499
N63-10627	02-26	NASA-TN-D-1559
N63-10628	02-02	NASA-TN-D-1508
N63-10629	02-02	NASA-MEMO-2-6-59E
N63-10630	02-19	WADD-TR-61-72, VOL. VIII
N63-10631	02-20	JPRS-16303
N63-10632	02-22	JPRS-16338
N63-10633	02-15	SELWS-M-14
N63-10634	02-21	SELWS-M-13
N63-10635	02-33	UTIA-21
N63-10636	02-23	UTIA-86
N63-10637	02-08	NO REPORT NUMBER
N63-10638	02-20	JPRS-16446
N63-10639	02-21	JPRS-16379
N63-10640	02-29	JPRS-16402
N63-10641	02-23	NO REPORT NUMBER
N63-10642	02-08	NO REPORT NUMBER
N63-10643	02-15	NO REPORT NUMBER
N63-10644	02-15	NO REPORT NUMBER
N63-10645	02-34	ASD-TR-61-692
N63-10646	02-23	CU-1-62-ONR-266/34/-CE
N63-10647	02-23	CU-2-62
N63-10648	02-11	NO REPORT NUMBER
N63-10649	02-19	WADD-TR-60-540
N63-10650	02-27	NASA-TN-D-1502
N63-10651	02-07	JPL-TR-32-253
N63-10652	02-27	JPL-TR-32-217
N63-10653	02-23	NOLTR-62-149
N63-10654	02-16	SAM-TDR-62-99
N63-10655	02-16	SAM-TDR-62-87
N63-10656	02-24	TDR-169/3210-02/TN-1
N63-10657	02-20	ORNL-3318
N63-10658	02-23	USNRDL-TR-559
N63-10659	02-17	TID-8212
N63-10660	02-21	JPRS-16539
N63-10661	02-21	JPRS-16557
N63-10662	02-17	ASD-TDR-62-781
N63-10663	02-33	ASD-TDR-62-501
N63-10664	02-18	NO REPORT NUMBER
N63-10665	02-17	ASD-TDR-62-670
N63-10666	02-02	RAL-RR-186
N63-10667	02-08	NRL-5846
N63-10668	02-28	AE62-0862
N63-10669	02-34	IER SER. 131, ISSUE 16
N63-10670	02-17	AFSWC-TDR-62-117
N63-10671	02-11	AEDC-TDR-62-208
N63-10672	02-08	AFCRL-62-742
N63-10673	02-02	AEDC-TDR-62-209
N63-10674	02-15	AEC-TR-5089
N63-10675	02-09	AFOSR-2770
N63-10676	02-23	GA-3359
N63-10677	02-15	GA-3351
N63-10678	02-16	AMRL-TDR-62-112
N63-10679	02-28	AEC-TR-5377
N63-10680	02-11	DCAS-TDR-62-133
N63-10681	02-21	JPRS-16344
N63-10682	02-24	DCAS-TDR-62-167

N63-10683	02-01	DME/NAE-1962/3/
N63-10684	02-08	NO REPORT NUMBER
N63-10685	02-12	SUI-62-23-B
N63-10686	02-11	CARDE-TM-627/61
N63-10687	02-08	NO REPORT NUMBER
N63-10688	02-12	NO REPORT NUMBER
N63-10689	02-24	NO REPORT NUMBER
N63-10690	02-23	NO REPORT NUMBER
N63-10691	02-21	NSSP-11
N63-10692	02-17	NO REPORT NUMBER
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N63-10697	02-24	NO REPORT NUMBER
N63-10698	02-20	NO REPORT NUMBER
N63-10699	02-07	CU-7356
N63-10700	02-33	NO REPORT NUMBER
N63-10701	02-26	NO REPORT NUMBER
N63-10702	02-26	NO REPORT NUMBER
N63-10703	02-07	NO REPORT NUMBER
N63-10704	02-18	ASD-TDR-62-292
N63-10705	02-17	ASD-TR-62-795 SECT. II
N63-10706	02-24	DCAS-TDR-62-88
N63-10707	02-06	ASD-TDR-62-69
N63-10708	02-13	IS-492
N63-10709	02-07	NO REPORT NUMBER
N63-10710	02-11	JPL-TR-32-317
N63-10711	02-23	RM-62TMP-32
N63-10712	02-31	NASA-SP-10
N63-10713	02-17	WAL-TR-142.5/1-4
N63-10714	02-19	WADD-TR-61-72, VOL. XI
N63-10715	02-02	AOMC-RF-TR-62-1, REV.
N63-10716	02-20	T&AM-206
N63-10717	02-33	T&AM-208
N63-10718	02-33	T&AM-209
N63-10719	02-20	T&AM-210
N63-10720	02-33	T&AM-212
N63-10721	02-33	T&AM-213
N63-10722	02-34	T&AM-214
N63-10723	02-33	NO REPORT NUMBER
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N63-10726	02-20	NO REPORT NUMBER
N63-10727	02-24	NO REPORT NUMBER
N63-10728	02-33	NO REPORT NUMBER
N63-10729	02-11	NO REPORT NUMBER
N63-10730	02-26	NO REPORT NUMBER
N63-10731	02-20	MRL-TDR-62-27/II/
N63-10732	02-24	NO REPORT NUMBER
N63-10733	02-13	NASA-TN-D-1535
N63-10734	02-22	NASA-TN-D-1433
N63-10735	02-27	NASA-TN-D-1461
N63-10736	02-30	NASA-TR-R-137
N63-10737	02-07	NO REPORT NUMBER
N63-10738	02-01	NO REPORT NUMBER
N63-10739	02-11	ONERA-105
N63-10740	02-23	MURA-649
N63-10741	02-07	ASD-TDR-62-575
N63-10742	02-33	ARL-62-425
N63-10743	02-18	ASD-TR-61-566
N63-10744	02-06	ASD-TDR-62-373
N63-10745	02-18	ASD-TDR-62-396
N63-10746	02-30	RAD-TM-62-20, PT. 1
N63-10747	02-18	BMI-1602
N63-10748	02-17	AMC-RK-TR-62-10
N63-10749	02-34	ASD-TDR-62-279
N63-10750	02-18	NO REPORT NUMBER
N63-10751	02-11	TRG-156-SR-1
N63-10752	02-25	IS-299
N63-10753	02-02	ARL-62-405
N63-10754	02-17	AEDC-TDR-62-221
N63-10755	02-20	C11-80
N63-10756	02-18	ASD-TDR-62-329
N63-10757	02-08	AFCRL-62-359
N63-10758	02-11	AVCO-EVERETT RES. REPT.-140
N63-10759	02-25	AFCRL-62-585
N63-10760	02-24	PIBAL-753
N63-10761	02-23	NO REPORT NUMBER
N63-10762	02-08	OR-2495-1
N63-10763	02-02	USCEC-65-50
N63-10764	02-24	NO REPORT NUMBER
N63-10765	02-01	JPL-81BL-39-3
N63-10766	02-26	NO REPORT NUMBER
N63-10767	02-23	NO REPORT NUMBER
N63-10768	02-12	NO REPORT NUMBER
N63-10769	02-05	NASA-TT-F-112
N63-10770	02-15	NO REPORT NUMBER
N63-10771	02-29	NO REPORT NUMBER
N63-10772	02-05	BNL-710/T-247/
N63-10773	02-09	EUR-30.E
N63-10774	02-17	EUR-39.E
N63-10775	02-23	EUR-103.F
N63-10776	02-20	EUR-105.E
N63-10777	02-20	EUR-106.F
N63-10778	02-15	EUR-107.F
N63-10779	02-20	EUR-108.F
N63-10780	02-15	EUR-109.F
N63-10781	02-15	EUR-111.E
N63-10782	02-14	ER-12693
N63-10783	02-20	MATT-90
N63-10784	02-23	MATT-142
N63-10785	02-15	NO REPORT NUMBER
N63-10786	02-11	EOS-RR-5
N63-10787	02-17	RIA-62-2752
N63-10788	02-11	R62SD97
N63-10789	02-12	RRC-A82
N63-10790	02-15	AFCRL-62-900
N63-10791	02-13	NO REPORT NUMBER
N63-10792	02-18	RDR-1322-1
N63-10793	02-16	NASA-TN-D-1357
N63-10794	02-10	NASA-TN-D-1377
N63-10795	02-30	NASA-TN-D-1396
N63-10796	02-05	NASA-TN-D-1415
N63-10797	02-30	NASA-TN-D-1496
N63-10798	02-13	NASA-TN-D-1500
N63-10799	02-33	NASA-TN-D-1522
N63-10800	02-03	NASA-TN-D-1554
N63-10801	02-33	NASA-TN-D-1666
N63-10802	02-23	NASA-TN-D-1667
N63-10803	02-29	ARS PAPER-2390-62
N63-10804	02-34	NASA-TN-D-1510
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N63-10862	02-05	NO REPORT NUMBER

N63-10863	02-07	UCRL-10451
N63-10864	02-20	LAMS-2762
N63-10865	02-08	NO REPORT NUMBER
N63-10866	02-15	P-62-20
N63-10867	02-17	ORNL-3344
N63-10868	02-29	NASA-TN-D-1445
N63-10869	02-15	LAMS-2796
N63-10870	02-23	UCRL-10461
N63-10871	02-23	UCRL-10474
N63-10872	02-07	UCRL-10482
N63-10873	02-28	NYU-10249
N63-10874	02-23	AFCRL-62-1041
N63-10875	02-29	SAM-TDR-62-121
N63-10876	02-15	ARL/MET-15
N63-10877	02-23	ASD-TDR-62-375
N63-10878	02-11	AGES-62-8
N63-10879	02-16	AMRL-TDR-62-96
N63-10880	02-26	E194-62
N63-10881	02-27	NASA-TN-D-1457
N63-10882	02-33	ASD-TDR-62-237
N63-10883	02-27	USNRDL-TR-589
N63-10884	02-11	DASA-1322
N63-10885	02-11	DASA-1326
N63-10886	02-23	.. AVCO-EVERETT RES. REPT.-141
N63-10887	02-07	.. AVCO-EVERETT RES. REPT.-142
N63-10888	02-21	SELWS-M-15
N63-10889	02-15	JPL-TR-32-329
N63-10890	02-30	NO REPORT NUMBER
N63-10891	02-33	T&AM-219
N63-10892	02-33	T&AM-235
N63-10893	02-07	NOLTR-62-59
N63-10894	02-33	IER SER. 175, ISSUE 1
N63-10895	02-32	NPL/AERO/1040
N63-10896	02-17	NO REPORT NUMBER
N63-10897	02-12	NO REPORT NUMBER
N63-10898	02-33	NASA-TN-D-1458
N63-10899	02-23	NO REPORT NUMBER
N63-10900	02-20	NO REPORT NUMBER
N63-10901	02-23	AFCRL-62-92
N63-10902	02-08	RADC-TDR-62-443
N63-10903	02-28	NO REPORT NUMBER
N63-10904	02-32	NASA-TN-D-1514
N63-10905	02-28	NO REPORT NUMBER
N63-10906	02-16	MRL-TDR-62-71
N63-10907	02-33	ARL/SM-288
N63-10908	02-33	WADD-TR-60-517, VOL. II
N63-10909	02-23	USNRDL-TR-581
N63-10910	02-29	NO REPORT NUMBER
N63-10911	02-12	RRC-876
N63-10912	02-01	NO REPORT NUMBER
N63-10913	02-13	NO REPORT NUMBER
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N63-10931	02-17	NASA-TN-D-1339, PHASE I
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N63-10936	02-11	TFM-8151-006
N63-10937	02-12	AFCRL-62-1079
N63-10938	02-12	AFCRL-62-1063
N63-10939	02-01	JPL-SPS-37-17, VOL. IV
N63-10940	02-20	NO REPORT NUMBER
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N63-10942	02-21	AFCRL-62-1069
N63-10943	02-33	AASU-225
N63-10944	02-16	CAL-VO-1616-V-1
N63-10945	02-14	AMRL-TDR-62-97
N63-10946	02-13	RAS-TM-62-6
N63-10947	02-17	R-3911
N63-10948	02-29	NO REPORT NUMBER
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N63-10951	02-34	ARC-R-77
N63-10952	02-20	NASA-TN-D-1678
N63-10953	02-01	JPL-SM-40-1
N63-10954	02-15	PIBMRI-1013-62
N63-10955	02-23	AEDC-TDR-62-165
N63-10956	02-26	ARF-3197-15
N63-10957	02-20	MC-102
N63-10958	02-08	MC-104
N63-10959	02-08	MC-108
N63-10960	02-32	MC-110
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N63-10972	02-27	NO REPORT NUMBER
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N63-10976	02-20	JPRS-1658
N63-10977	02-18	JPRS-1656
N63-10978	02-29	JPRS-1659
N63-10979	02-21	JPRS-1656
N63-10980	02-08	JPRS-1660
N63-10981	02-21	JPRS-1666
N63-10982	02-16	JPRS-1667
N63-10983	02-18	JPRS-1657
N63-10984	02-18	JPRS-1659
N63-10985	02-16	JPRS-1663
N63-10986	02-18	NASA-TN-D-159
N63-10987	02-33	NASA-TN-D-1467
N63-10988	02-12	NASA-TT-F-10
N63-10989	02-23	T&AM-23
N63-10990	02-33	NO REPORT NUMBER
N63-10991	02-13	NASA-TN-D-137
N63-10992	02-01	JPRS-1671
N63-10993	02-26	MRB-20220
N63-10994	02-20	NO REPORT NUMBER
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N63-10996	02-27	RAC-96
N63-10997	02-05	NO REPORT NUMBER
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N63-11002	03-16	NO REPORT NUMBER
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N63-11004	03-30	NASA-TM-X-70
N63-11005	03-15	NO REPORT NUMBER
N63-11006	03-02	NO REPORT NUMBER
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N63-11008	03-26	ARL-62-43
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N63-11012	03-07	AFCRL-62-108
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N63-11015	03-28	AFCRL-62-111
N63-11016	03-12	AFCRL-62-109
N63-11017	03-29	AFCRL-62-109
N63-11018	03-29	AFCRL-62-110
N63-11019	03-29	AFCRL-62-109
N63-11020	03-07	AFCRL-62-111
N63-11021	03-12	AFCRL-62-111
N63-11022	03-26	SSD-TDR-62-17
N63-11023	03-12	NO REPORT NUMBER
N63-11024	03-13	COA-N-13
N63-11025	03-11	ANL-663
N63-11026	03-23	AEC-TR-540
N63-11027	03-18	AEC-TR-537
N63-11028	03-23	APGC-TDR-62-4
N63-11029	03-26	ARL-62-44
N63-11030	03-15	AFCRL-62-66
N63-11031	03-09	NBS-TN-14
N63-11032	03-08	NBS-TN-12
N63-11033	03-12	NBS-TN-40
N63-11034	03-25	AFCRL-62-36
N63-11035	03-23	AFCRL-62-71
N63-11036	03-08	AFCRL-62-73
N63-11037	03-09	AFCRL-62-57
N63-11038	03-16	ARL-TDR-62-2
N63-11039	03-08	AFCRL-62-79
N63-11040	03-20	USNRDL-TR-59
N63-11041	03-09	AFCRL-111
N63-11042	03-17	AFSC-TR-7-926/1

N63-11043	03-15	ARL/A-198
N63-11044	03-18	LAMS-2773
N63-11045	03-17	AL62L020
N63-11046	03-15	NAVWEPS-7773
N63-11047	03-08	NBS-TN-18-14
N63-11048	03-15	ABL/B-22
N63-11049	03-02	CM-1019
N63-11050	03-34	NASA-TN-D-1691
N63-11051	03-31	RM-3268-NASA
N63-11052	03-10	JPL-SPS-37-18, VOL. II
N63-11053	03-18	JPL-TR-32-222
N63-11054	03-20	NYO-9190
N63-11055	03-18	LAMS-2779
N63-11056	03-34	NASA-TN-D-1690
N63-11057	03-34	NASA-TN-D-1692
N63-11058	03-01	ASD-TR-61-645
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N63-11123	03-04	NASA-TN-D-1402
N63-11124	03-24	NASA-TN-D-1689
N63-11125	03-20	AROD-968-34
N63-11126	03-30	ER-12737
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N63-11133	03-26	SSD-TDR-62-176
N63-11134	03-26	SSD-TDR-62-177
N63-11135	03-12	LR-16085
N63-11136	03-23	UCRL-10510
N63-11137	03-01	NASA-SP-8
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N63-11158	03-04	NO REPORT NUMBER
N63-11159	03-32	NO REPORT NUMBER
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N63-11162	03-20	NO REPORT NUMBER
N63-11163	03-07	NO REPORT NUMBER
N63-11164	03-26	PIBAL-713
N63-11165	03-33	A&ES-62-6
N63-11166	03-33	A&ES-62-13
N63-11167	03-12	AFCRL-62-1022
N63-11168	03-13	TIL/T-5306
N63-11169	03-07	TIL/T-5316
N63-11170	03-27	SM-42097
N63-11171	03-27	SM-42516
N63-11172	03-11	GAMD-3639
N63-11173	03-23	AFCRL-62-904
N63-11174	03-27	R-1549
N63-11175	03-11	NO REPORT NUMBER
N63-11176	03-18	NO REPORT NUMBER
N63-11177	03-15	UCRL-10421
N63-11178	03-23	UCRL-7052
N63-11179	03-23	UCRL-7118
N63-11180	03-31	SSD-592-T62-1
N63-11181	03-12	JPRS-16691
N63-11182	03-10	ARTC-30
N63-11183	03-25	AFCRL-62-771
N63-11184	03-08	JPRS-16690
N63-11185	03-23	JPRS-16722
N63-11186	03-23	JPRS-16686
N63-11187	03-26	PIBAL-660
N63-11188	03-12	JPRS-16749
N63-11189	03-25	NML-62-1
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N63-11197	03-11	NYO-9188
N63-11198	03-20	NYO-9759
N63-11199	03-23	ANL-6611
N63-11200	03-14	HUMRRO-TR-77
N63-11201	03-12	NO REPORT NUMBER
N63-11202	03-20	JPRS-16738
N63-11203	03-16	JPRS-16776
N63-11204	03-20	JPRS-16783
N63-11205	03-05	JPRS-16786
N63-11206	03-19	JPRS-16788
N63-11207	03-18	JPRS-16807
N63-11208	03-20	NYO-9603
N63-11209	03-13	AEDC-TDR-62-233
N63-11210	03-03	ORNL-3294
N63-11211	03-18	GEMP-18A
N63-11212	03-29	NASA-TT-F-93
N63-11213	03-01	NO REPORT NUMBER
N63-11214	03-01	NO REPORT NUMBER
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N63-11222	03-15	NO REPORT NUMBER

N63-11223	03-01	AFCRL-62-714
N63-11224	03-24	UCRL-6947-T
N63-11225	03-23	EFINS-62-54-55-56
N63-11226	03-16	AMRL-TDR-62-118
N63-11227	03-18	WADD-TR-60-463, PT. II
N63-11228	03-23	GEAP-4047
N63-11229	03-23	NYO-10206
N63-11230	03-18	WAL-TR-371/50
N63-11231	03-18	WAL-TR-371/51
N63-11232	03-18	WAL-TR-371/52
N63-11233	03-18	WAL-TR-371/53
N63-11234	03-21	AFCRL-62-1087
N63-11235	03-13	TP-54
N63-11236	03-07	DP-511
N63-11237	03-02	JPL-TR-32-338
N63-11238	03-24	USNRDL-TR-587
N63-11239	03-01	WADC-TR-53-373, SUPPL. 9
N63-11240	03-12	AFCRL-62-826
N63-11241	03-12	NO REPORT NUMBER
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N63-11252	03-29	ARS PAPER-2604-62
N63-11253	03-30	ARS PAPER-2617-62
N63-11254	03-09	ARS PAPER-2619-62
N63-11255	03-09	ARS PAPER-2620-62
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N63-11257	03-29	ARS PAPER-2623-62
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N63-11260	03-24	ARS PAPER-2633-62
N63-11261	03-16	ARS PAPER-2644-62
N63-11262	03-14	ARS PAPER-2647-62
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N63-11283	03-20	JPRS-16837
N63-11284	03-04	COA-N-127
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N63-11287	03-11	COA-N-134
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N63-11293	03-19	NO REPORT NUMBER
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N63-11295	03-27	NO REPORT NUMBER
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N63-11304	03-11	NO REPORT NUMBER
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N63-11306	03-15	NO REPORT NUMBER
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N63-11314	03-03	RM-205
N63-11315	03-15	AFSWC-TDR-62-25
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N63-11317	03-07	NO REPORT NUMBER
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N63-11319	03-33	NO REPORT NUMBER
N63-11320	03-09	PIBMRI-1095-62
N63-11321	03-30	SUI-62-24
N63-11322	03-05	RM-3279-JPL
N63-11323	03-12	SUI-62-28
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N63-11329	03-26	NO REPORT NUMBER
N63-11330	03-26	ASD-TDR-62-451
N63-11331	03-11	SSD-TDR-62-155
N63-11332	03-23	BM-RI-6143
N63-11333	03-18	NO REPORT NUMBER
N63-11334	03-25	EOS-2080-ML-9
N63-11335	03-08	AFCRL-62-921
N63-11336	03-18	BM-RI-6115
N63-11337	03-18	JPRS-16855
N63-11338	03-18	JPRS-16841
N63-11339	03-14	HUMRRO-TR-75
N63-11340	03-08	AFCRL-62-792
N63-11341	03-16	NA-62-283
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N63-11355	03-12	AFCRL-62-1061
N63-11356	03-20	RADC-TDR-62-442
N63-11357	03-12	NBS-TN-40-7
N63-11358	03-12	NBS-TN-40-13
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N63-11397		ACC. NO. NOT USED
N63-11398		ACC. NO. NOT USED
N63-11399		ACC. NO. NOT USED
N63-11400		ACC. NO. NOT USED
N63-11401		ACC. NO. NOT USED
N63-11402	03-16	NO REPORT NUMBER

N63-11403		ACC. NO. NOT USED
N63-11404	03-11	RAE-TRANS-1012
N63-11405	03-14	MRL-TDR-62-72
N63-11406	03-23	DASA-1332
N63-11407	03-29	AR-26-JPL
N63-11408	03-11	NO REPORT NUMBER
N63-11409	03-30	ASD-TDR-62-627
N63-11410	03-08	RADC-TDR-62-554
N63-11411	03-33	FPL-1888
N63-11412	03-33	FPL-1889
N63-11413	03-12	NO REPORT NUMBER
N63-11414	03-12	NO REPORT NUMBER
N63-11415	03-29	NO REPORT NUMBER
N63-11416	03-07	NO REPORT NUMBER
N63-11417	03-18	NO REPORT NUMBER
N63-11418	03-23	NOLC-568
N63-11419	03-02	CAL-OM-1626-A-8
N63-11420	03-11	CAL-112
N63-11421	03-15	ATL-D-861
N63-11422	03-32	MS-703
N63-11423	03-08	NO REPORT NUMBER
N63-11424	03-11	NAVWEPS-7920
N63-11425	03-02	AEDC-TDR-62-220
N63-11426	03-16	NO REPORT NUMBER
N63-11427	03-02	DTMB-AERO-1040
N63-11428	03-05	RM-3138-NASA
N63-11429	03-11	AFOSR-2552
N63-11430	03-19	NO REPORT NUMBER
N63-11431	03-20	NO REPORT NUMBER
N63-11432	03-23	NO REPORT NUMBER
N63-11433	03-23	CU-3-62-SC-78330
N63-11434	03-19	WAL-TR-851.5/1
N63-11435	03-33	AMC-RR-TR-62-5
N63-11436	03-23	TRG-134-QTR-2
N63-11437	03-21	AFCRL-62-1082
N63-11438	03-18	NO REPORT NUMBER
N63-11439	03-27	PWA-2087
N63-11440	03-33	ARD-TR-02-003
N63-11441	03-27	WAL-TR-766.41/2-3
N63-11442	03-17	WAL-401.54/2-2
N63-11443	03-33	WAL-TR-850/13
N63-11444	03-19	AWS-TR-165
N63-11445	03-04	AERONAUTICAL ENG. REPT.-600
N63-11446	03-18	ASD-TR-61-686, PT. I
N63-11447	03-19	RIA-62-3289
N63-11448	03-20	MRC-341
N63-11449	03-20	MRC-344
N63-11450	03-20	MRC-348
N63-11451	03-20	MRC-347
N63-11452	03-20	MRC-346
N63-11453	03-20	MRC-352
N63-11454	03-20	MRC-362
N63-11455	03-20	MRC-366
N63-11456	03-12	AFCRL-62-1093
N63-11457	03-08	AFCRL-62-595
N63-11458	03-18	NO REPORT NUMBER
N63-11459	03-14	NO REPORT NUMBER
N63-11460	03-30	NO REPORT NUMBER
N63-11461	03-11	NO REPORT NUMBER
N63-11462	03-02	NO REPORT NUMBER
N63-11463	03-23	JPRS-16853
N63-11464	03-23	JPRS-16930
N63-11465	03-16	AMRL-TDR-62-116
N63-11466	03-16	NO REPORT NUMBER
N63-11467	03-16	NO REPORT NUMBER
N63-11468	03-16	NO REPORT NUMBER
N63-11469	03-16	NO REPORT NUMBER
N63-11470	03-16	NO REPORT NUMBER
N63-11471	03-16	NO REPORT NUMBER
N63-11472	03-16	NO REPORT NUMBER
N63-11473	03-16	NO REPORT NUMBER
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N63-11475	03-16	NO REPORT NUMBER
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N63-11486	03-16	NO REPORT NUMBER
N63-11487	03-16	NO REPORT NUMBER
N63-11488	03-16	NO REPORT NUMBER
N63-11489	03-28	AFOSR/DRA-62-22
N63-11490	03-23	LAMS-2807
N63-11491	03-20	NYO-9760
N63-11492	03-23	ANL-6658
N63-11493	03-09	NO REPORT NUMBER
N63-11494	03-07	RIA-62-554
N63-11495	03-12	NO REPORT NUMBER
N63-11496	03-07	NO REPORT NUMBER
N63-11497	03-20	JPRS-16992
N63-11498	03-23	NASA-TT-F-98
N63-11499	03-12	NO REPORT NUMBER
N63-11500	03-11	R62SD985-CLASS I
N63-11501	03-29	NASA-SP-11, VOL. 1
N63-11502	03-29	NASA-SP-11, VOL. 2
N63-11503	03-12	NASA-SP-13
N63-11504	03-29	NASA-SP-14
N63-11505	03-05	NASA-SP-15
N63-11506	03-20	NASA-SP-16
N63-11507	03-22	NASA-SP-17
N63-11508	03-16	NASA-SP-18
N63-11509	03-27	NASA-SP-19
N63-11510	03-27	NASA-SP-20
N63-11511	03-06	NASA-SP-21
N63-11512	03-27	NASA-SP-22
N63-11513	03-02	NASA-SP-23
N63-11514	03-11	NASA-SP-24
N63-11515	03-24	NASA-SP-25
N63-11516	03-23	NASA-SP-26
N63-11517	03-19	NASA-SP-27
N63-11518	03-34	NASA-SP-28
N63-11519	03-19	JPL-TR-32-334
N63-11520	03-09	JPRS-16211
N63-11521	03-18	JPRS-16854
N63-11522	03-21	JPRS-16905
N63-11523	03-05	JPRS-15517
N63-11524	03-05	NO REPORT NUMBER
N63-11525	03-05	NO REPORT NUMBER
N63-11526	03-08	NO REPORT NUMBER
N63-11527	03-05	NO REPORT NUMBER
N63-11528	03-05	NO REPORT NUMBER
N63-11529	03-05	NO REPORT NUMBER
N63-11530	03-05	JPRS-15740
N63-11531	03-12	NO REPORT NUMBER
N63-11532	03-12	NO REPORT NUMBER
N63-11533	03-05	NO REPORT NUMBER
N63-11534	03-05	NO REPORT NUMBER
N63-11535	03-16	TID-7027
N63-11536	03-20	NASA-TN-D-1455
N63-11537	03-01	NO REPORT NUMBER
N63-11538	03-26	ARL-62-432
N63-11539	03-23	ARL-62-433
N63-11540	03-16	NO REPORT NUMBER
N63-11541	03-20	JPRS-17001
N63-11542	03-16	JPRS-16994
N63-11543	03-16	JPRS-16995
N63-11544	03-23	NBS-7607
N63-11545	04-05	JPRS-16917
N63-11546	04-05	NO REPORT NUMBER
N63-11547	04-05	NO REPORT NUMBER
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N63-11552	04-05	NO REPORT NUMBER
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N63-11554	04-05	NO REPORT NUMBER
N63-11555	04-23	ONR-TR-46
N63-11556	04-07	ONR-TR-50
N63-11557	04-05	NO REPORT NUMBER
N63-11558	04-05	NO REPORT NUMBER
N63-11559	04-07	ONR-TR-40
N63-11560	04-33	IER SER. 131, ISSUE 17
N63-11561	04-16	JPRS-16956
N63-11562	04-01	NAS/NRC-1079
N63-11563	04-13	ASD-TDR-62-608, PT. I
N63-11564	04-08	DAMP-TM-62-13
N63-11565	04-25	AROD-2238-5
N63-11566	04-20	ORNL-3251
N63-11567	04-20	BN-289
N63-11568		ACC. NO. NOT USED
N63-11569	04-26	ASD-TR-61-150, PT. II
N63-11570	04-18	ASD-TDR-62-617
N63-11571	04-23	LA-2712
N63-11572	04-23	LA-2750
N63-11573	04-07	OR-3530-2
N63-11574	04-33	NO REPORT NUMBER
N63-11575	04-19	NO REPORT NUMBER
N63-11576	04-01	NO REPORT NUMBER
N63-11577	04-28	NO REPORT NUMBER
N63-11578	04-12	NO REPORT NUMBER
N63-11579	04-18	NO REPORT NUMBER
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N63-11581	04-23	NO REPORT NUMBER
N63-11582	04-33	NO REPORT NUMBER

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N63-11584	04-20	NO REPORT NUMBER
N63-11585	04-08	NO REPORT NUMBER
N63-11586	04-08	NO REPORT NUMBER
N63-11587	04-07	AFCRL-62-698
N63-11588	04-07	NO REPORT NUMBER
N63-11589	04-07	NO REPORT NUMBER
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N63-11591	04-12	NO REPORT NUMBER
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N63-11593	04-14	JPRS-16404
N63-11594	04-14	NO REPORT NUMBER
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N63-11597	04-12	NO REPORT NUMBER
N63-11598	04-21	AFCRL-62-1023
N63-11599	04-18	NO REPORT NUMBER
N63-11600	04-21	AFCRL-62-1127
N63-11601	04-20	ANL-6641
N63-11602	04-18	ASD-TR-62-520
N63-11603	04-21	SELWS-M-16
N63-11604	04-21	SELWS-M-17
N63-11605	04-18	JPRS-17016
N63-11606	04-10	AEDC-TDR-62-201
N63-11607	04-12	NO REPORT NUMBER
N63-11608	04-16	NO REPORT NUMBER
N63-11609	04-29	NASA-TT-F-89
N63-11610	04-15	PA-TM-1017
N63-11611	04-29	NASA-TT-F-113
N63-11612	04-20	NASA-TT-F-114
N63-11613	04-29	NASA-TN-D-1456
N63-11614	04-03	NASA-TN-D-1521
N63-11615	04-29	NASA-TN-D-1530
N63-11616	04-26	NASA-TN-D-1533
N63-11617	04-02	NASA-TN-D-1557
N63-11618	04-26	NASA-TN-D-1577
N63-11619	04-15	NASA-TN-D-1597
N63-11620	04-20	NASA-TN-D-1599
N63-11621	04-24	FR-012-844
N63-11622	04-20	IMM-NYU-295
N63-11623	04-15	NBS-TN-99
N63-11624	04-16	SAM-62-59
N63-11625	04-02	DTMB-1679
N63-11626	04-21	ERDAH-MET-2-63
N63-11627	04-11	AEDC-TDR-63-18
N63-11628	04-16	ARL-TDR-62-17
N63-11629	04-20	WAPD-TM-294
N63-11630	04-09	WADD-TR-61-48, PT. III
N63-11631	04-21	NBS-TN-98
N63-11632	04-20	AFCRL-62-354
N63-11633	04-09	PIBMRI-996-62
N63-11634	04-09	PIBMRI-1006-62
N63-11635	04-23	AFOSR-TN-2566
N63-11636	04-23	AFOSR-TN-2640
N63-11637	04-23	AFOSR-TN-2941
N63-11638	04-20	NO REPORT NUMBER
N63-11639	04-20	NO REPORT NUMBER
N63-11640	04-23	ANL-6517
N63-11641	04-20	WIS-AF-20, SER. 3
N63-11642	04-23	NO REPORT NUMBER
N63-11643	04-23	NO REPORT NUMBER
N63-11644	04-20	NO REPORT NUMBER
N63-11645	04-20	NO REPORT NUMBER
N63-11646	04-20	NO REPORT NUMBER
N63-11647	04-20	NO REPORT NUMBER
N63-11648		ACC. NO. NOT USED
N63-11649	04-01	NO REPORT NUMBER
N63-11650	04-01	TIL/T-5193
N63-11651	04-07	TIL/T-5339
N63-11652		ACC. NO. NOT USED
N63-11653	04-25	NO REPORT NUMBER
N63-11654	04-34	NO REPORT NUMBER
N63-11655	04-01	NO REPORT NUMBER
N63-11656	04-07	NO REPORT NUMBER
N63-11657	04-25	NO REPORT NUMBER
N63-11658	04-01	NO REPORT NUMBER
N63-11659	04-01	NO REPORT NUMBER
N63-11660	04-01	NO REPORT NUMBER
N63-11661	04-01	NO REPORT NUMBER
N63-11662	04-08	NO REPORT NUMBER
N63-11663	04-15	AEC-TR-5259
N63-11664	04-15	NO REPORT NUMBER
N63-11665	04-23	HW-73337
N63-11666	04-20	NO REPORT NUMBER
N63-11667	04-20	NO REPORT NUMBER
N63-11668	04-20	NO REPORT NUMBER
N63-11669	04-25	AFCRL-62-503
N63-11670	04-20	AFCRL-62-646
N63-11671	04-20	AFCRL-62-647
N63-11672	04-23	AFCRL-62-778
N63-11673	04-17	AID-62-89
N63-11674	04-20	AROD-2773-6
N63-11675	04-09	DOFL-R940-62-2
N63-11676	04-23	JPRS-14224
N63-11677	04-06	NO REPORT NUMBER
N63-11678	04-11	MIT-DSR-8180
N63-11679	04-33	AROD-2990-1
N63-11680	04-17	NASA-TN-D-1562
N63-11681	04-23	NDL-TR-40
N63-11682	04-18	JPRS-17040
N63-11683	04-16	JPRS-17054
N63-11684	04-16	JPRS-17079
N63-11685	04-10	ACNP-620158
N63-11686	04-16	AMRL-TDR-62-135
N63-11687	04-01	R-452-22-62
N63-11688	04-11	NOLTR-62-160
N63-11689	04-20	ANL-6623
N63-11690	04-07	UTC-2002-QT7
N63-11691	04-15	BM-RI-6111
N63-11692	04-12	AFCRL-62-1138
N63-11693	04-12	AFCRL-62-1139
N63-11694	04-08	AFCRL-62-1140
N63-11695	04-17	BM-RI-6133
N63-11696	04-20	CARDE-TM-66/62
N63-11697	04-19	PWA-2088
N63-11698	04-20	JPRS-14623
N63-11699	04-20	NO REPORT NUMBER
N63-11700	04-13	NO REPORT NUMBER
N63-11701	04-20	NO REPORT NUMBER
N63-11702	04-08	NO REPORT NUMBER
N63-11703	04-07	NO REPORT NUMBER
N63-11704	04-24	MATT-134
N63-11705	04-24	MATT-139
N63-11706	04-24	MATT-152
N63-11707	04-33	MATT-154
N63-11708	04-24	MATT-155
N63-11709	04-24	AFCRL-62-1047
N63-11710	04-21	AFCRL-62-1019
N63-11711	04-07	S-480
N63-11712	04-11	NO REPORT NUMBER
N63-11713	04-16	CEX-59.4.16
N63-11714	04-04	LW-INTERN-27
N63-11715	04-04	UE-27-139
N63-11716	04-16	JPRS-14449
N63-11717	04-07	CCL-132
N63-11718	04-07	CCL-133
N63-11719	04-24	AFCRL-62-906
N63-11720	04-16	AEC-TR-5376
N63-11721	04-18	ARDC-TR-59-66
N63-11722	04-18	ARDC-TR-59-66, SUPPL. 1
N63-11723	04-01	NO REPORT NUMBER
N63-11724	04-01	NO REPORT NUMBER
N63-11725	04-01	NO REPORT NUMBER
N63-11726	04-01	NO REPORT NUMBER
N63-11727	04-10	NO REPORT NUMBER
N63-11728	04-01	NO REPORT NUMBER
N63-11729	04-17	BMI-1606
N63-11730	04-23	ORNL-3289
N63-11731	04-11	NO REPORT NUMBER
N63-11732	04-17	AID-62-205
N63-11733	04-20	BRL-1176
N63-11734	04-23	BM-RI-6147
N63-11735	04-30	TG-416-A
N63-11736	04-07	NO REPORT NUMBER
N63-11737	04-20	AROD-247-54
N63-11738	04-07	NO REPORT NUMBER
N63-11739	04-25	NOTS-TP-2984
N63-11740	04-16	NASA-TN-D-1083
N63-11741	04-06	NASA-TN-D-1543
N63-11742	04-13	NASA-TN-D-1567
N63-11743	04-15	DRL-490
N63-11744	04-09	R-155
N63-11745	04-09	R-158
N63-11746	04-03	CAL-BB-1495-S-1
N63-11747	04-20	TCEA-TN-10
N63-11748	04-15	ARL-62-463
N63-11749	04-04	TCREC-TR-62-73
N63-11750	04-08	AMC-RR-TR-62-10
N63-11751	04-13	ANL-6645
N63-11752	04-20	ANL-6647
N63-11753		ACC. NO. NOT USED
N63-11754	04-23	ORNL-3360
N63-11755	04-16	AMRL-TDR-62-136
N63-11756	04-17	MTI-62TR29
N63-11757	04-26	NO REPORT NUMBER
N63-11758	04-18	DSR-7618
N63-11759	04-27	R-2850AS
N63-11760		ACC. NO. NOT USED
N63-11761	04-04	NO REPORT NUMBER
N63-11762	04-12	NO REPORT NUMBER

N63-11763	04-23	NO REPORT NUMBER
N63-11764	04-07	EUR-90.D
N63-11765	04-23	EUR-88.F
N63-11766	04-20	EUR-144.F
N63-11767	04-26	EUR-112.E,F, VOL. 1
N63-11768	04-26	EUR-112.E,F, VOL. 3
N63-11769	04-18	MRL-125
N63-11770	04-23	MRL-127
N63-11771	04-07	NO REPORT NUMBER
N63-11772	04-16	FPRC/MEMO-176
N63-11773	04-16	FPRC/MEMO-175
N63-11774	04-23	BRN-3-P
N63-11775	04-15	AEDC-TDR-62-191
N63-11776	04-16	JPRS-17117
N63-11777	04-20	JPRS-17137
N63-11778	04-16	JPRS-17161
N63-11779	04-02	NASA-TR-R-125
N63-11780	04-22	NASA-TR-R-128
N63-11781	04-27	NASA-TR-R-140
N63-11782	04-07	ARL-62-439
N63-11783	04-12	NO REPORT NUMBER
N63-11784	04-25	S-472
N63-11785	04-04	ASD-TDR-62-507
N63-11786	04-18	ASD-TDR-62-734
N63-11787	04-16	AMRL-TDR-62-108
N63-11788	04-16	AMRL-TDR-62-123
N63-11789	04-28	NO REPORT NUMBER
N63-11790	04-16	ARL-TDR-62-25
N63-11791	04-16	ARL-TDR-62-27
N63-11792	04-16	ARL-TDR-62-28
N63-11793	04-16	ARL-TDR-62-30
N63-11794	04-19	R62SD57
N63-11795	04-11	R62SD79
N63-11796	04-23	UCRL-10426
N63-11797	04-19	UCRL-10435
N63-11798	04-20	UCRL-10491
N63-11799	04-17	EK/ARD-ED-866
N63-11800	04-11	BRL-TN-1473
N63-11801	04-07	CCL-134
N63-11802	04-20	NYO-9192
N63-11803	04-15	AFCRL-62-933
N63-11804	04-01	NO REPORT NUMBER
N63-11805	04-23	HW-74731, PT. II
N63-11806	04-23	BN-307
N63-11807	04-25	ATL-D-786
N63-11808	04-01	NO REPORT NUMBER
N63-11809	04-22	NO REPORT NUMBER
N63-11810	04-08	NO REPORT NUMBER
N63-11811	04-13	FPRC/1202
N63-11812	04-17	IS-464
N63-11813	04-20	IS-507
N63-11814	04-09	JPRS-17092
N63-11815	04-07	ANL-6637
N63-11816	04-23	DP-788
N63-11817	04-23	DP-795
N63-11818	04-23	DP-811
N63-11819	04-23	LA-2761
N63-11820	04-23	LAMS-2815
N63-11821	04-17	ARF-1164-27
N63-11822	04-16	AEC-TR-5427
N63-11823	04-29	SAD SPECIAL REPT.-105
N63-11824	04-16	AEC-TR-5236
N63-11825	04-06	NAA-SR-7140
N63-11826	04-07	NAA-SR-7482
N63-11827	04-07	NAA-SR-7511
N63-11828	04-23	TID-16999
N63-11829	04-17	WAPD-TM-323
N63-11830	04-23	EUR-133.I
N63-11831	04-07	R-334-20
N63-11832	04-03	NLL-TR-S.527
N63-11833	04-11	G-25
N63-11834	04-16	AID-62-200
N63-11835	04-16	AID-62-201
N63-11836	04-16	AID-62-202
N63-11837	04-16	AID-62-204
N63-11838	04-03	AGARD-275
N63-11839	04-16	JPRS-17162
N63-11840	04-16	JPRS-17170
N63-11841	04-16	JPRS-17171
N63-11842	04-12	JPRS-17175
N63-11843	04-07	JPRS-17176
N63-11844	04-16	UR-619
N63-11845	04-16	UR-621
N63-11846	04-02	NASA-TN-D-1481
N63-11847	04-17	IDO-16011
N63-11848	04-11	NO REPORT NUMBER
N63-11849		ACC. NO. NOT USED
N63-11850	04-07	GCA-TR-62-25-A
N63-11851	04-09	MS-770
N63-11852	04-21	MO-712
N63-11853	04-15	D228-421-011
N63-11854	04-19	BM-RI-6142
N63-11855	04-07	BM-RI-6148
N63-11856	04-33	NO REPORT NUMBER
N63-11857	04-27	AEDC-TDR-62-196
N63-11858	04-23	AFCRL-62-877
N63-11859	04-12	RAD-TR-62-64
N63-11860	04-15	AFCRL-62-1064
N63-11861	04-02	RAL-RR-190
N63-11862	04-20	AFOSR/DRA-62-21
N63-11863	04-20	OTS-61-11303
N63-11864	04-23	NO REPORT NUMBER
N63-11865	04-23	NYO-10241
N63-11866	04-23	AE63-0006
N63-11867	04-23	AMC-RR-TR-62-8
N63-11868	04-23	SLAC-3
N63-11869	04-23	SLAC-4
N63-11870	04-23	SLAC-6
N63-11871	04-13	ARL-62-442
N63-11872	04-18	JPRS-17155
N63-11873	04-33	CU-15-62-ONR-266/78/-CE
N63-11874	04-33	CU-16-62-ONR-266/78/-CE
N63-11875	04-23	CU-17-62-ONR-266/78/-CE
N63-11876	04-21	NO REPORT NUMBER
N63-11877	04-15	BENDIX RLD-2055
N63-11878	04-26	ASD-TDR-62-1027
N63-11879	04-20	NO REPORT NUMBER
N63-11880	04-11	TDR-169/3230-12/TN-4
N63-11881	04-21	NSL-10
N63-11882	04-24	NO REPORT NUMBER
N63-11883	04-11	NO REPORT NUMBER
N63-11884	04-11	TRG-158-FR
N63-11885	04-09	PIBMRI-1052-62
N63-11886	04-27	NOTS-TP-2876
N63-11887	04-18	NO REPORT NUMBER
N63-11888	04-28	SUI-62-27
N63-11889	04-19	SCA-34300
N63-11890	04-10	QE/C-62-513
N63-11891	04-08	AFCRL-62-343
N63-11892	04-08	AFCRL-62-344
N63-11893	04-12	AFCRL-62-345
N63-11894	04-08	AFCRL-62-346
N63-11895	04-08	AFCRL-62-347
N63-11896	04-08	AFCRL-62-348
N63-11897	04-12	AFCRL-62-350
N63-11898	04-12	AFCRL-62-351
N63-11899	04-12	AFCRL-62-352
N63-11900	04-08	AFCRL-62-353
N63-11901	04-03	ARC-RGM-3286
N63-11902	04-02	ARC-RGM-3290
N63-11903	04-03	ARC-RGM-3299
N63-11904	04-23	NO REPORT NUMBER
N63-11905	04-21	NO REPORT NUMBER
N63-11906	04-17	NO REPORT NUMBER
N63-11907	04-03	NAL-TR-97
N63-11908	04-10	NAL-TR-24
N63-11909	04-02	NAL-TR-26
N63-11910	04-03	NAL-TR-27
N63-11911	04-33	NAL-TR-28
N63-11912	04-18	NO REPORT NUMBER
N63-11913	04-08	PIBMRI-1041-62
N63-11914	04-09	PIBMRI-1051-62
N63-11915	04-13	OMIC-177, VOL. 1
N63-11916	04-13	OMIC-177, VOL. 2
N63-11917	04-08	RAE-TRANS-998
N63-11918	04-33	EMR-AN-110
N63-11919	04-17	PF-62-15
N63-11920	04-05	NO REPORT NUMBER
N63-11921		ACC. NO. NOT USED
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N63-11923	04-15	ASD-TDR-62-793
N63-11924	04-16	AMRL-TDR-62-126
N63-11925	04-03	CP-583
N63-11926	04-11	CP-607
N63-11927	04-11	CP-609
N63-11928	04-23	PNE-128F
N63-11929	04-01	TO-937
N63-11930	04-17	AID-S-63-3
N63-11931	04-27	NO REPORT NUMBER
N63-11932	04-27	NO REPORT NUMBER
N63-11933	04-16	NO REPORT NUMBER
N63-11934	04-14	JPRS-17219
N63-11935	04-09	JPRS-17220
N63-11936	04-16	AEC-TR-5445
N63-11937	04-23	WAPD-BT-27
N63-11938	04-23	NO REPORT NUMBER
N63-11939	04-23	NO REPORT NUMBER
N63-11940	04-23	NO REPORT NUMBER
N63-11941	04-17	NO REPORT NUMBER
N63-11942	04-23	NO REPORT NUMBER

N63-11943	04-13	NO REPORT NUMBER
N63-11944	04-20	NO REPORT NUMBER
N63-11945	04-20	TR-1088
N63-11946	04-11	NO REPORT NUMBER
N63-11947	04-08	GEAP-4026
N63-11948	04-16	JPRS-17202
N63-11949	04-16	NO REPORT NUMBER
N63-11950	04-16	NO REPORT NUMBER
N63-11951	05-12	NO REPORT NUMBER
N63-11952	05-09	NO REPORT NUMBER
N63-11953	05-09	AFCRL-62-728
N63-11954	05-15	AFCRL-62-875
N63-11955	05-15	D228-421-012
N63-11956	05-11	BSD-TDR-62-118
N63-11957	05-11	.. AERONAUTICAL ENG. REPT.-620
N63-11958	05-11	.. AERONAUTICAL ENG. REPT.-623
N63-11959	05-11	AFBSD-TDR-62-144
N63-11960	05-22	TG-459
N63-11961	05-15	BM-RI-6149
N63-11962	05-07	ONR-TR-RLT-55
N63-11963	05-32	NASA FACTS-F-12-62
N63-11964	05-27	DMIC-180
N63-11965	05-21	AFCRL-62-1094
N63-11966	05-11	NO REPORT NUMBER
N63-11967	05-25	NO REPORT NUMBER
N63-11968	05-25	NO REPORT NUMBER
N63-11969	05-25	NO REPORT NUMBER
N63-11970	05-25	NO REPORT NUMBER
N63-11971	05-25	NO REPORT NUMBER
N63-11972	05-26	NO REPORT NUMBER
N63-11973	05-24	AEDC-TDR-63-5
N63-11974	05-17	HW-73698, REV.
N63-11975	05-18	HW-75267
N63-11976	05-15	HW-75384
N63-11977	05-17	NO REPORT NUMBER
N63-11978	05-15	.. AERONAUTICAL ENG. REPT.-633
N63-11979	05-23	GEAP-4024
N63-11980	05-12	NBS-7633
N63-11981	05-11	R62SD16 - CLASS I
N63-11982	05-23	SLAC-9
N63-11983	05-23	ORNL-3367
N63-11984	05-13	LANS-2793
N63-11985	05-15	LA-2812
N63-11986	05-30	NASA-TN-D-1493
N63-11987	05-20	NOLTR-62-131
N63-11988	05-27	PWA-2106
N63-11989	05-23	EOS-2230-Q-3
N63-11990	05-32	NASA-SP-12
N63-11991	05-32	NO REPORT NUMBER
N63-11992	05-32	NO REPORT NUMBER
N63-11993	05-16	NO REPORT NUMBER
N63-11994	05-32	NO REPORT NUMBER
N63-11995	05-32	NO REPORT NUMBER
N63-11996	05-19	UCRL-6743
N63-11997	05-07	UCRL-10437
N63-11998	05-25	UCRL-10466
N63-11999	05-19	UCRL-10468
N63-12000	05-07	UCRL-10505
N63-12001	05-02	FFA-91
N63-12002	05-02	TCREC-TR-62-46
N63-12003	05-21	NASA-TN-D-1569
N63-12004	05-33	NASA-TN-D-1600
N63-12005	05-33	APGC-TDR-62-74
N63-12006	05-19	NO REPORT NUMBER
N63-12007	05-07	HW-71232
N63-12008	05-20	NO REPORT NUMBER
N63-12009	05-20	NO REPORT NUMBER
N63-12010	05-20	NO REPORT NUMBER
N63-12011	05-16	JPRS-17222
N63-12012	05-09	JPRS-17225
N63-12013	05-09	JPRS-17227
N63-12014	05-16	JPRS-17239
N63-12015	05-16	JPRS-17250
N63-12016	05-06	JPRS-17252
N63-12017	05-17	JPRS-17253
N63-12018	05-15	JPRS-17257
N63-12019	05-01	JPRS-17261
N63-12020	05-16	JPRS-17262
N63-12021	05-18	JPRS-17275
N63-12022	05-07	MCW-1479
N63-12023	05-16	AEC-TR-5242
N63-12024	05-23	AFCRL-62-796
N63-12025	05-11	ARL-62-396
N63-12026	05-11	ARL-62-453
N63-12027	05-18	AID-S-63-5
N63-12028	05-12	AFCRL-62-311
N63-12029	05-29	RAE-TRANS-1015
N63-12030	05-29	RAE-TRANS-1016
N63-12031	05-04	NO REPORT NUMBER
N63-12032	05-20	NO REPORT NUMBER
N63-12033	05-24	CRSR-130
N63-12034	05-28	EFINS-62-72
N63-12035	05-24	A-920057-1
N63-12036		ACC. NO. NOT USED
N63-12037	05-20	NO REPORT NUMBER
N63-12038	05-14	LB-30977
N63-12039	05-15	BSD-TDR-62-318
N63-12040	05-29	RM-3140-NASA
N63-12041	05-05	NO REPORT NUMBER
N63-12042	05-24	BN-301
N63-12043	05-05	PR-39
N63-12044	05-09	ESL-R-149
N63-12045	05-17	ESL-TM-141
N63-12046	05-15	NO REPORT NUMBER
N63-12047	05-33	FS-AMD-R62-1
N63-12048	05-08	MR-005.09-1401.04
N63-12049	05-23	NO REPORT NUMBER
N63-12050	05-23	NO REPORT NUMBER
N63-12051	05-04	TCREC-TR-62-88
N63-12052	05-07	NO REPORT NUMBER
N63-12053	05-32	NO REPORT NUMBER
N63-12054	05-23	NO REPORT NUMBER
N63-12055	05-07	HW-73747 REV.
N63-12056	05-18	NO REPORT NUMBER
N63-12057	05-19	NO REPORT NUMBER
N63-12058	05-21	NO REPORT NUMBER
N63-12059	05-05	ML-975
N63-12060	05-12	UCRL-6942
N63-12061	05-20	NASA-TT-F-133
N63-12062	05-32	NASA-TN-D-1544
N63-12063	05-29	NASA-TN-D-1668
N63-12064	05-28	NASA-TN-D-1675
N63-12065	05-16	JPRS-17249
N63-12066	05-16	NO REPORT NUMBER
N63-12067	05-16	NO REPORT NUMBER
N63-12068	05-15	NO REPORT NUMBER
N63-12069	05-19	R-3498
N63-12070	05-09	PIBMRI-1075-62
N63-12071	05-05	NO REPORT NUMBER
N63-12072	05-30	NASA FACTS-G-12-62
N63-12073	05-30	NASA FACTS-E-10-62
N63-12074	05-05	NASA-TN-D-1417
N63-12075	05-29	NASA-TN-D-1468
N63-12076	05-20	TEES-2671-2
N63-12077	05-05	BN-290
N63-12078	05-05	BN-291
N63-12079	05-23	NO REPORT NUMBER
N63-12080	05-08	NO REPORT NUMBER
N63-12081	05-21	AFCRL-62-867
N63-12082	05-32	NO REPORT NUMBER
N63-12083	05-08	USNRDL-TR-544
N63-12084	05-09	NO REPORT NUMBER
N63-12085	05-21	NO REPORT NUMBER
N63-12086	05-09	NO REPORT NUMBER
N63-12087	05-13	ATN-63/9206/-3
N63-12088	05-20	NO REPORT NUMBER
N63-12089	05-24	R62SD991
N63-12090	05-20	BR-39
N63-12091	05-32	NASA FACTS-D-62
N63-12092	05-20	CARDE-TM-662/62
N63-12093	05-02	ARC-CP-615
N63-12094	05-23	MRL-126
N63-12095	05-20	AROD-2579-13
N63-12096	05-18	NO REPORT NUMBER
N63-12097	05-26	NO REPORT NUMBER
N63-12098	05-11	.. AERONAUTICAL ENG. REPT.-619
N63-12099	05-15	NO REPORT NUMBER
N63-12100	05-19	USNRDL-TR-547
N63-12101	05-10	FR081-1313
N63-12102	05-07	MATT-148
N63-12103	05-11	K-1535
N63-12104	05-15	TDR-169/3153/TR-1
N63-12105	05-17	WAL-401.54/2-4
N63-12106	05-09	SEL-62-093
N63-12107	05-24	AE-62-0210-H
N63-12108	05-13	MITNE-21
N63-12109	05-06	NO REPORT NUMBER
N63-12110	05-26	NO REPORT NUMBER
N63-12111	05-13	NO REPORT NUMBER
N63-12112	05-33	RAE-TRANS-996
N63-12113	05-17	NO REPORT NUMBER
N63-12114	05-26	NOLTR-61-171
N63-12115	05-05	SAO SPECIAL REPT.-104
N63-12116	05-05	SAO SPECIAL REPT.-106
N63-12117	05-29	SAO SPECIAL REPT.-107
N63-12118	05-29	SAO SPECIAL REPT.-108
N63-12119	05-05	SAO SPECIAL REPT.-109
N63-12120	05-28	AFCRL-62-1066
N63-12121	05-28	AFCRL-62-1117
N63-12122	05-28	AFCRL-62-1062

N63-12123 05-26 ..... R-2267-8
N63-12124 05-24 ..... R62SD14
N63-12125 05-32 ..... NASA-TN-D-1422
N63-12126 05-13 ..... R62SD987
N63-12127 05-20 ..... AROD-1517-44
N63-12128 05-03 ..... ARC-R&M-3294
N63-12129 05-18 ..... NO REPORT NUMBER
N63-12130 05-13 ..... MITNE-22, BK.I
N63-12131 05-08 ..... PIBMRI-1103-62
N63-12132 05-11 ..... PIBAL-773
N63-12133 05-16 ..... JPRS-17274
N63-12134 05-18 ..... JPRS-17296
N63-12135 05-21 ..... JPRS-17299
N63-12136 05-18 ..... JPRS-17322
N63-12137 05-12 ..... AID-S-63-4
N63-12138 05-01 ..... NO REPORT NUMBER
N63-12139 05-23 ..... GA-2802
N63-12140 05-07 ..... ANL-6642
N63-12141 05-20 ..... AFCRL-62-911
N63-12142 05-20 ..... NO REPORT NUMBER
N63-12143 05-07 ..... RND-5009-Q2
N63-12144 05-12 ..... NS-1
N63-12145 05-24 ..... TP-43
N63-12146 05-05 ..... AFCRL-62-1059
N63-12147 05-23 ..... CX-59
N63-12148 05-12 ..... AFCRL-62-1134
N63-12149 05-32 ..... NO REPORT NUMBER
N63-12150 05-28 ..... NO REPORT NUMBER
N63-12151 05-05 ..... NO REPORT NUMBER
N63-12152 05-20 ..... NO REPORT NUMBER
N63-12153 05-11 ..... NO REPORT NUMBER
N63-12154 05-23 ..... NO REPORT NUMBER
N63-12155 05-19 ..... NAA-SR-7398
N63-12156 05-17 ..... ESRD-7-19
N63-12157 05-26 ..... ASD-TR-408, SUPPL. 1
N63-12158 05-33 ..... NO REPORT NUMBER
N63-12159 05-12 ..... NASA-TN-D-1546
N63-12160 05-26 ..... NASA-TN-D-1582
N63-12161 05-23 ..... CU-3-62-ONR-266/34/-CE/A
N63-12162 05-19 ..... NO REPORT NUMBER
N63-12163 05-23 ..... APGC-TDR-63-2
N63-12164 05-23 ..... AEC-TR-5458
N63-12165 05-17 ..... DRL-498
N63-12166 05-18 ..... WAL-TR-834.12/2
N63-12167 05-21 ..... NO REPORT NUMBER
N63-12168 05-17 ..... CA-4251-0160, VOL. I
N63-12169 05-17 ..... CA-4251-0160, VOL. II
N63-12170 05-26 ..... ASD-TDR-62-1041
N63-12171 05-26 ..... ASD-TDR-62-1042
N63-12172 05-15 ..... K-1445
N63-12173 05-20 ..... LA-2376 ADDENDA
N63-12174 05-23 ..... LAMS-2795
N63-12175 05-04 ..... NO REPORT NUMBER
N63-12176 05-18 ..... BM-RI-6155
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N63-12180 05-11 ..... NO REPORT NUMBER
N63-12181 05-25 ..... NO REPORT NUMBER
N63-12182 05-33 ..... DASA-1299
N63-12183 05-11 ..... TRG-140-FR
N63-12184 05-33 ..... DMIC-MEMO-161
N63-12185 05-09 ..... AFCRL-62-927
N63-12186 05-18 ..... JPRS-17306
N63-12187 05-18 ..... NO REPORT NUMBER
N63-12188 05-18 ..... NO REPORT NUMBER
N63-12189 05-17 ..... JPRS-17323
N63-12190 05-16 ..... JPRS-17326
N63-12191 05-02 ..... NASA-TM-X-254
N63-12192 05-04 ..... NASA-TN-D-1279
N63-12193 05-19 ..... NASA-TN-D-1442
N63-12194 05-23 ..... NASA-TN-D-1490
N63-12195 05-30 ..... NASA-TN-D-1563
N63-12196 05-11 ..... NO REPORT NUMBER
N63-12197 05-17 ..... JPRS-17356
N63-12198 05-12 ..... UAG-R127
N63-12199 05-26 ..... NDLTR-62-19
N63-12200 05-06 ..... ER-4544
N63-12201 05-05 ..... JPRS-17363
N63-12202 05-05 ..... NO REPORT NUMBER
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N63-12207 05-26 ..... U-1988
N63-12208 05-15 ..... NAA-SR-7077
N63-12209 05-15 ..... ANL-6537
N63-12210 05-08 ..... NO REPORT NUMBER
N63-12211 05-27 ..... TID-16315/DEL./
N63-12212 05-18 ..... SC-4747/RR/
N63-12213 05-16 ..... JPL-TR-32-289
N63-12214 05-23 ..... NASA-TN-D-1646
N63-12215 05-20 ..... BB-311
N63-12216 05-07 ..... AROD-1395-10
N63-12217 05-07 ..... AROD-1443-55
N63-12218 05-07 ..... ORNL-3375
N63-12219 05-10 ..... ESD-TDR-62-336
N63-12220 05-29 ..... CM-1026
N63-12221 05-23 ..... SLAC-7
N63-12222 05-27 ..... TDR-930/2701-01/TN-1, VOL. II
N63-12223 05-25 ..... JPRS-17348
N63-12224 05-23 ..... JPRS-17376
N63-12225 05-18 ..... JPRS-17370
N63-12226 05-16 ..... NO REPORT NUMBER
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N63-12230 05-07 ..... JPRS-17345
N63-12231 05-07 ..... NO REPORT NUMBER
N63-12232 05-07 ..... NO REPORT NUMBER
N63-12233 05-23 ..... AEC-TR-3406
N63-12234 05-25 ..... NO REPORT NUMBER
N63-12235 05-16 ..... NO REPORT NUMBER
N63-12236 05-16 ..... NO REPORT NUMBER
N63-12237 05-33 ..... NO REPORT NUMBER
N63-12238 05-16 ..... DASA-1312
N63-12239 05-16 ..... DASA-1335
N63-12240 05-16 ..... DASA-1313
N63-12241 05-04 ..... AP-5061-R
N63-12242 05-27 ..... AP-5062-R
N63-12243 05-04 ..... NASA-TN-D-1516
N63-12244 05-23 ..... NASA-TN-D-1519
N63-12245 05-11 ..... NASA-TN-D-1564
N63-12246 05-30 ..... NASA-TN-D-1593
N63-12247 05-04 ..... NASA-TN-D-1647
N63-12248 05-14 ..... CARI-62-16
N63-12249 05-16 ..... CARI-62-19
N63-12250 05-16 ..... CARI-62-20
N83-12251 05-16 ..... NO REPORT NUMBER
N63-12252 05-32 ..... NASA-TN-D-608
N63-12253 05-11 ..... AEDC-TDR-63-3
N63-12254 05-11 ..... AEDC-TDR-63-30
N63-12255 05-17 ..... ABL/Z-48
N63-12256 05-33 ..... TIS-R62-SD77
N63-12257 05-33 ..... ORNL-3299
N63-12258 05-24 ..... ORNL-3387
N63-12259 05-20 ..... LAMS-2809
N63-12260 05-07 ..... ASD-TDR-62-873
N63-12261 05-18 ..... NO REPORT NUMBER
N63-12262 05-11 ..... NASA-TT-F-79
N63-12263 05-26 ..... NO REPORT NUMBER
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N63-12265 05-26 ..... NO REPORT NUMBER
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N63-12273 05-26 ..... NO REPORT NUMBER
N63-12274 05-26 ..... NO REPORT NUMBER
N63-12275 05-26 ..... NO REPORT NUMBER
N63-12276 05-18 ..... WADD-TR-60-37, PT. III
N63-12277 05-16 ..... CARI-62-18
N63-12278 05-18 ..... UCRL-13052
N63-12279 05-15 ..... TDR-169/3210-06/TR-1
N63-12280 05-26 ..... TR-800-5
N63-12281 05-16 ..... DASA-1334
N63-12282 05-23 ..... IER SER. 131, ISSUE 18
N63-12283 05-08 ..... NO REPORT NUMBER
N63-12284 05-18 ..... ASD-TDR-62-354
N63-12285 05-18 ..... ASD-TDR-62-508
N63-12286 05-18 ..... ASD-TDR-62-667
N63-12287 05-02 ..... NASA-TN-D-972
N63-12288 05-15 ..... ATL-D-811
N63-12289 05-21 ..... AFCRL-62-1091
N63-12290 05-12 ..... AFCRL-62-1021
N63-12291 05-01 ..... NO REPORT NUMBER
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N63-12294 05-01 ..... AU-290-61-RSI
N63-12295 05-06 ..... NO REPORT NUMBER
N63-12296 05-18 ..... DMIC-MEMO-162
N63-12297 05-08 ..... AMRL-TDR-62-144
N63-12298 05-12 ..... AFCRL-62-1071
N63-12299 05-15 ..... AI-8058
N63-12300 05-15 ..... D228-421-013
N63-12301 05-15 ..... ASD-TDR-62-165, VOL. I.
N63-12302 05-27 ..... MIT-29-P

N63-12303	05-21	SELWS-M-21
N63-12304	05-18	WAL-TR-650/1
N63-12305	05-07	SRI-14-P
N63-12306	05-11	CU-1-62-ONR-266/86/-CE
N63-12307	05-11	CU-1-63-ONR-266/86/-CE
N63-12308	05-18	ASD-TDR-62-858
N63-12309	05-18	ASD-TDR-62-859
N63-12310	05-23	NO REPORT NUMBER
N63-12311	05-06	AI-7950
N63-12312	05-20	NASA-TN-D-1320
N63-12313	05-11	NO REPORT NUMBER
N63-12314	05-25	NO REPORT NUMBER
N63-12315	05-18	AROD-3394-1
N63-12316	05-10	ORNL-3372
N63-12317	05-10	ANL-6616
N63-12318	05-10	ANL-6672
N63-12319	05-09	AID-S-63-13
N63-12320	05-11	ARL-62-457
N63-12321	05-16	LF-5
N63-12322	05-09	PIBMRI-1040-62
N63-12323	05-09	PIBMRI-1084-62
N63-12324	05-27	R-3703-3
N63-12325	05-09	JPRS-17391
N63-12326	05-23	JPRS-17398
N63-12327	05-20	JPRS-17405
N63-12328	05-28	SUI-62-31
N63-12329	05-16	SAM-TDR-62-123
N63-12330	05-16	SAM-TDR-62-133
N63-12331	05-20	SAM-TDR-62-134
N63-12332	05-14	SAM-TDR-62-145
N63-12333	05-07	BNL-639/T-2010/
N63-12334	05-19	BNL-745/T-270/
N63-12335	05-07	BNL-753/T-278/
N63-12336	05-15	BNL-763/T-284/
N63-12337	05-17	BNL-764/T-285/
N63-12338	05-23	BNL-768/N-7/
N63-12339	05-33	NO REPORT NUMBER
N63-12340	05-20	WIS-TCI-7, SER. 2
N63-12341	05-29	JPL-SPS-37-18, VOL. VI
N63-12342	05-33	NO REPORT NUMBER
N63-12343	05-01	NO REPORT NUMBER
N63-12344	05-09	ANL-6634
N63-12345	05-20	ORNL-3394
N63-12346	05-11	RM-214
N63-12347	05-28	NO REPORT NUMBER
N63-12348	05-11	NO REPORT NUMBER
N63-12349	05-12	BM-RI-6151
N63-12350	05-07	NO REPORT NUMBER
N63-12351	06-15	NO REPORT NUMBER
N63-12352	06-15	NO REPORT NUMBER
N63-12353	06-05	NO REPORT NUMBER
N63-12354	06-11	WIS-TCI-6, SER. 2
N63-12355	06-34	NSL-62-228
N63-12356	06-16	NSL-62-125-2
N63-12357	06-21	NO REPORT NUMBER
N63-12358	06-09	NO REPORT NUMBER
N63-12359	06-32	NO REPORT NUMBER
N63-12360	06-31	NO REPORT NUMBER
N63-12361	06-32	NO REPORT NUMBER
N63-12362	06-05	AFCRL-62-1120
N63-12363	06-15	TIL/T-5280
N63-12364	06-01	NO REPORT NUMBER
N63-12365	06-01	NO REPORT NUMBER
N63-12366	06-15	ESL-R-137
N63-12367	06-17	A62-12
N63-12368	06-11	NWL-1835
N63-12369	06-02	FLIGHT SCIENCES LAB. TR-64
N63-12370	06-17	TR-62-8
N63-12371	06-22	RG-TR-62-8
N63-12372	06-07	CCL-135
N63-12373	06-07	CCL-136
N63-12374	06-07	CCL-137
N63-12375	06-18	BM-RI-6154
N63-12376	06-18	WAL-TR-372/32-3-T1
N63-12377	06-18	WAL-TR-372/32-3-T3
N63-12378	06-16	P-2/168
N63-12379	06-12	JS-3
N63-12380	06-18	NO REPORT NUMBER
N63-12381	06-20	MRC-349
N63-12382	06-20	MRC-350
N63-12383	06-05	MRC-351
N63-12384	06-20	MRC-353
N63-12385	06-20	MRC-354
N63-12386	06-11	MRC-358
N63-12387	06-20	MRC-359
N63-12388	06-20	MRC-361
N63-12389	06-20	MRC-367
N63-12390	06-20	MRC-369
N63-12391	06-16	JPRS-17402
N63-12392	06-16	NO REPORT NUMBER
N63-12393	06-16	NO REPORT NUMBER
N63-12394	06-16	NO REPORT NUMBER
N63-12395	06-16	NO REPORT NUMBER
N63-12396	06-16	NO REPORT NUMBER
N63-12397	06-16	NO REPORT NUMBER
N63-12398	06-16	NO REPORT NUMBER
N63-12399	06-16	NO REPORT NUMBER
N63-12400	06-07	NO REPORT NUMBER
N63-12401	06-07	NBL-189
N63-12402	06-26	NO REPORT NUMBER
N63-12403	06-33	TTRI-48
N63-12404	06-33	TTRI-53
N63-12405	06-17	TR-2311-6026-RU000
N63-12406	06-19	ASD-TDR-62-700
N63-12407	06-07	BM-RI-6161
N63-12408	06-07	BM-RI-6162
N63-12409	06-15	NOLC-575
N63-12410	06-23	HW-75120
N63-12411	06-23	HW-75228
N63-12412	06-19	HW-75428
N63-12413	06-20	AFCRL-62-946
N63-12414	06-10	WAPD-MRP-101
N63-12415	06-12	NO REPORT NUMBER
N63-12416	06-01	NO REPORT NUMBER
N63-12417	06-06	NO REPORT NUMBER
N63-12418	06-16	NO REPORT NUMBER
N63-12419	06-23	UCRL-10366
N63-12420	06-23	UCRL-10504
N63-12421	06-07	UCRL-10575
N63-12422	06-23	UCRL-10531
N63-12423	06-23	UCRL-7001
N63-12424	06-07	UCRL-7128
N63-12425	06-13	PA-TM-1119
N63-12426	06-07	PA-TR-3008
N63-12427	06-33	SDL-324
N63-12428	06-19	NO REPORT NUMBER
N63-12429	06-15	NOLC-576
N63-12430		ACC. NO. NOT USED
N63-12431	06-07	BM-RI-6153
N63-12432	06-19	BM-RI-6157
N63-12433	06-16	ARL-TDR-62-29
N63-12434	06-11	NO REPORT NUMBER
N63-12435	06-07	NBL-188
N63-12436	06-07	NO REPORT NUMBER
N63-12437	06-07	NO REPORT NUMBER
N63-12438	06-07	NO REPORT NUMBER
N63-12439	06-07	NO REPORT NUMBER
N63-12440	06-07	NO REPORT NUMBER
N63-12441	06-07	NO REPORT NUMBER
N63-12442	06-07	NO REPORT NUMBER
N63-12443	06-07	NO REPORT NUMBER
N63-12444	06-07	NO REPORT NUMBER
N63-12445	06-07	NO REPORT NUMBER
N63-12446	06-11	NWL-1836
N63-12447	06-07	RT/CHI/62/13
N63-12448	06-15	RT/EL/62/11
N63-12449		ACC. NO. NOT USED
N63-12450	06-30	BSD-TDR-62-331
N63-12451	06-30	BSD-TDR-62-329
N63-12452	06-33	BSD-TDR-62-330
N63-12453	06-29	ESD-TDR-63-189
N63-12454	06-23	HW-69965
N63-12455	06-15	HW-71521, REV
N63-12456	06-15	HW-75746
N63-12457	06-20	BAW-1260
N63-12458	06-07	MITS-49
N63-12459	06-23	PPAD-459-F
N63-12460	06-33	NO REPORT NUMBER
N63-12461	06-16	NO REPORT NUMBER
N63-12462	06-16	SAM-TDR-62-94
N63-12463	06-14	SAM-TDR-62-127
N63-12464	06-26	NO REPORT NUMBER
N63-12465	06-02	AEDC-TDR-63-19
N63-12466	06-16	AMRL-TDR-62-145
N63-12467	06-12	NO REPORT NUMBER
N63-12468	06-28	AFOSR-418
N63-12469	06-21	AFCRL-62-1073
N63-12470	06-21	AFCRL-62-1078
N63-12471	06-04	DTMB-R-1700
N63-12472	06-23	NBS-TN-129
N63-12473	06-07	USNRDL-TR-601
N63-12474	06-17	USNRDL-TR-602
N63-12475	06-15	USNDRL-TR-604
N63-12476	06-23	IS-520
N63-12477	06-18	IS-542
N63-12478	06-11	NASA-TN-D-1527
N63-12479	06-33	NASA-TN-D-1565
N63-12480	06-03	NASA-TN-D-1594
N63-12481	06-15	USNRDL-TR-591
N63-12482	06-16	NO REPORT NUMBER

N63-12483	06-02	NO REPORT NUMBER
N63-12484	06-33	NO REPORT NUMBER
N63-12485	06-11	NO REPORT NUMBER
N63-12486	06-26	NO REPORT NUMBER
N63-12487	06-07	NO REPORT NUMBER
N63-12488	06-22	NASA-TN-D-1344
N63-12489	06-02	NASA-TN-D-1335
N63-12490	06-18	USNRDL-TR-599
N63-12491	06-31	NO REPORT NUMBER
N63-12492	06-26	NO REPORT NUMBER
N63-12493	06-33	GEMP-19A
N63-12494	06-23	IDO-28595
N63-12495	06-08	NOTS-TP-3109, PT. 2
N63-12496	06-13	Y-1410
N63-12497	06-02	NASA-MEMO-10-15-58L
N63-12498	06-02	NASA-MEMO-10-25-58L
N63-12499	06-02	NASA-MEMO-10-2-58L
N63-12500	06-33	NASA-MEMO-10-17-58L
N63-12501	06-02	NASA-MEMO-10-28-58L
N63-12502	06-04	NASA-MEMO-6-8-59L
N63-12503	06-04	NACA-RM-A57J01
N63-12504	06-08	NACA-RM-A58E21
N63-12505	06-02	NACA-RM-A58F02
N63-12506	06-02	NACA-RM-E54H19
N63-12507	06-27	NACA-RM-E54J14
N63-12508	06-02	NACA-RM-E55G21A
N63-12509	06-26	NACA-RM-E55J17A
N63-12510	06-02	NACA-RM-E56D10
N63-12511	06-26	NACA-RM-E56J11
N63-12512	06-11	NACA-RM-E57D03
N63-12513	06-27	NACA-RM-E57D19
N63-12514	06-27	NACA-RM-E57G26A
N63-12515	06-27	NACA-RM-E58D01
N63-12516	06-02	NACA-RM-E58E20
N63-12517	06-27	NACA-RM-E58G10A
N63-12518	06-02	NACA-RM-H57J09
N63-12519	06-02	NACA-RM-L55H23
N63-12520	06-02	NACA-RM-L55J24
N63-12521	06-27	NACA-RM-L57F21
N63-12522	06-02	NACA-RM-E56I26
N63-12523	06-02	NACA-RM-E56H23
N63-12524	06-27	NACA-RM-E55H04A
N63-12525	06-02	NACA-RM-E54G28
N63-12526	06-11	NACA-RM-E54G15
N63-12527	06-11	NACA-RM-E57I13
N63-12528	06-27	NACA-RM-E55I14
N63-12529	06-27	NACA-RM-E56D16
N63-12530	06-27	NACA-RM-E54D08
N63-12531	06-27	NACA-RM-E54G08
N63-12532	06-06	NACA-RM-E56I18
N63-12533	06-02	NACA-RM-L56I13
N63-12534	06-02	NACA-RM-L57H13
N63-12535	06-26	NACA-RM-E55F22
N63-12536	06-27	NACA-RM-E53F05
N63-12537	06-02	NACA-RM-A50H10
N63-12538	06-27	NACA-RM-E51F14
N63-12539	06-22	NACA-RM-A52E27
N63-12540	06-27	NACA-RM-E55E04
N63-12541	06-26	NACA-RM-E55C28A
N63-12542	06-26	NACA-RM-E56G19
N63-12543	06-26	NACA-RM-E55G01
N63-12544	06-27	NACA-RM-E57H01
N63-12545	06-27	NACA-RM-E50H24
N63-12546	06-02	NACA-RM-E57G08
N63-12547	06-02	NACA-RM-E57E09
N63-12548	06-02	NASA-TM-X-16
N63-12549	06-02	NASA-TM-X-17
N63-12550	06-02	NASA-TM-X-42
N63-12551	06-02	NASA-TM-X-44
N63-12552	06-02	NASA-TM-X-47
N63-12553	06-02	NASA-TM-X-65
N63-12554	06-02	NASA-TM-X-83
N63-12555	06-02	NASA-TM-X-120
N63-12556	06-02	NASA-TM-X-124
N63-12557	06-02	NASA-TM-X-222
N63-12558	06-04	NASA-TM-X-294
N63-12559	06-02	NASA-TM-X-317
N63-12560	06-04	NASA-TM-X-344
N63-12561	06-02	NASA-TM-X-391
N63-12562	06-10	NASA-TM-X-394
N63-12563	06-04	NASA-TM-X-518
N63-12564	06-04	NASA-TM-X-639
N63-12565	06-23	LNF-62-60
N63-12566	06-23	LNF-62-61
N63-12567	06-23	LNF-62-63
N63-12568	06-15	LNF-62-66
N63-12569	06-23	LNF-62-67
N63-12570	06-23	LNF-62-68
N63-12571	06-25	LNF-62-70
N63-12572	06-09	LNF-62-73
N63-12573	06-23	LNF-62-75
N63-12574	06-23	LNF-62-85
N63-12575	06-23	LNF-62-87
N63-12576	06-23	LNF-62-89
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N63-12578	06-18	NO REPORT NUMBER
N63-12579	06-23	NO REPORT NUMBER
N63-12580	06-21	NO REPORT NUMBER
N63-12581	06-29	NO REPORT NUMBER
N63-12582	06-33	C11-85
N63-12583	06-18	DMIC-101
N63-12584	06-07	NO REPORT NUMBER
N63-12585	06-07	NO REPORT NUMBER
N63-12586	06-21	NASA-TN-D-1387
N63-12587	06-21	NO REPORT NUMBER
N63-12588	06-21	NO REPORT NUMBER
N63-12589	06-21	NO REPORT NUMBER
N63-12590	06-33	NASA-TN-D-521
N63-12591	06-17	NASA-TN-D-1580
N63-12592	06-22	NASA-TN-D-1607
N63-12593	06-29	NASA-TN-D-1649
N63-12594	06-29	NASA-TN-D-1682
N63-12595	06-29	NASA-TN-D-1685
N63-12596	06-29	NASA-TR-R-129
N63-12597	06-13	NASA-TR-R-142
N63-12598	06-04	NO REPORT NUMBER
N63-12599	06-07	TIL/T-5314
N63-12600	06-07	TIL/T-5373
N63-12601	06-11	TIL/T-5379
N63-12602	06-23	AGN-TM-399
N63-12603	06-18	LA-2813
N63-12604	06-11	CM-1020
N63-12605	06-26	PA-TR-3019
N63-12606	06-09	AFCRL-63-11
N63-12607	06-02	SAD-102
N63-12608	06-09	EDC-1-62-10
N63-12609	06-09	EDC-1-62-12
N63-12610	06-23	NO REPORT NUMBER
N63-12611	06-08	ESL-SR-157
N63-12612		ACC. NO. NOT USED
N63-12613	06-25	LNF-62-84
N63-12614	06-12	NO REPORT NUMBER
N63-12615	06-18	NO REPORT NUMBER
N63-12616	06-18	NO REPORT NUMBER
N63-12617	06-07	NO REPORT NUMBER
N63-12618	06-24	NO REPORT NUMBER
N63-12619	06-24	NO REPORT NUMBER
N63-12620		ACC. NO. NOT USED
N63-12621		ACC. NO. NOT USED
N63-12622		ACC. NO. NOT USED
N63-12623		ACC. NO. NOT USED
N63-12624		ACC. NO. NOT USED
N63-12625		ACC. NO. NOT USED
N63-12626		ACC. NO. NOT USED
N63-12627		ACC. NO. NOT USED
N63-12628		ACC. NO. NOT USED
N63-12629		ACC. NO. NOT USED
N63-12630	06-21	MO-728
N63-12631	06-12	AFCRL-62-349
N63-12632	06-16	NO REPORT NUMBER
N63-12633	06-29	NSL-62-13
N63-12634	06-15	ONERA-91
N63-12635	06-08	IRIG-106-62
N63-12636	06-17	Y-1409
N63-12637	06-20	DTMB-1613
N63-12638	06-09	EE-74
N63-12639	06-32	NASA-TM-X-810
N63-12640	06-27	NASA-TN-D-1723
N63-12641	06-29	AFCRL-62-324
N63-12642	06-09	PIBMRI-1043-62
N63-12643	06-25	AFCRL-62-949
N63-12644	06-17	EUR-117.E
N63-12645	06-12	NBS-TN-162
N63-12646	06-04	NASA-TM-X-275
N63-12647	06-02	NACA-RM-L57D25B
N63-12648	06-02	NACA-RM-L57D25C
N63-12649	06-12	NO REPORT NUMBER
N63-12650	06-07	NO REPORT NUMBER
N63-12651	06-23	NO REPORT NUMBER
N63-12652	06-11	IAS PAPER 63-70
N63-12653	06-28	NO REPORT NUMBER
N63-12654		ACC. NO. NOT USED
N63-12655	06-09	NO REPORT NUMBER
N63-12656	06-34	ARC-R-72
N63-12657	06-07	ORNL-3397
N63-12658	06-12	NO REPORT NUMBER
N63-12659	06-12	NO REPORT NUMBER
N63-12660	06-16	NO REPORT NUMBER
N63-12661	06-34	NYO-9859
N63-12662	06-19	ONR-TR-RLT-56

N63-12663	06-23	NO REPORT NUMBER
N63-12664	06-19	NO REPORT NUMBER
N63-12665	06-04	NO REPORT NUMBER
N63-12666	06-13	NADC-MA-6215
N63-12667	06-19	ROC/LIN-FINAL
N63-12668	06-18	ARL-225
N63-12669	06-26	NBS-R-213
N63-12670	06-25	AFCRL-62-971
N63-12671	06-23	SP-620-101-62U
N63-12672	06-09	NO REPORT NUMBER
N63-12673	06-20	NO REPORT NUMBER
N63-12674	06-27	NO REPORT NUMBER
N63-12675	06-25	NO REPORT NUMBER
N63-12676	06-09	AFCRL-63-20/A/
N63-12677	06-09	AFCRL-63-20/B/
N63-12678	06-09	AFCRL-62-918
N63-12679	06-33	BRL-1180
N63-12680	06-26	NOTS-TP-3009
N63-12681	06-24	R63SD4
N63-12682	06-24	R63SD5
N63-12683	06-30	ASRMCM-TM-62-11
N63-12684	06-09	NO REPORT NUMBER
N63-12685	06-14	AGARDOGRAPH-60
N63-12686	06-29	NASA-TN-D-1555
N63-12687	06-26	BMI-1608
N63-12688	06-17	AID-S-63-19
N63-12689	06-21	NSSP-12
N63-12690	06-26	LAMS-2814
N63-12691	06-27	NACA-RM-E58G17
N63-12692	06-11	NO REPORT NUMBER
N63-12693	06-24	NO REPORT NUMBER
N63-12694	06-09	NO REPORT NUMBER
N63-12695	06-23	NBS-TN-144
N63-12696	06-29	NSL-62-57
N63-12697	06-09	PIBMRI-1077-62
N63-12698	06-21	NRL-5817
N63-12699	06-24	RM-3429-NASA
N63-12700	06-15	PIBMRI-1071-62
N63-12701	06-02	NASA-TN-D-1648
N63-12702	06-12	NASA-TN-D-1670
N63-12703	06-14	NASA-TN-D-1591
N63-12704	06-09	NASA-TN-D-1462
N63-12705	06-19	NO REPORT NUMBER
N63-12706	06-19	NBS-7234
N63-12707	06-07	NO REPORT NUMBER
N63-12708	06-06	ASD-TR-61-11, VOL. III
N63-12709	06-06	ASD-TDR-62-668
N63-12710	06-19	ASD-TDR-62-416
N63-12711	06-07	AROD-2276-3
N63-12712	06-18	NRI-9525
N63-12713	06-20	DP-804
N63-12714	06-08	TRG-TDR-1
N63-12715	06-01	NASA-EP-5
N63-12716	06-16	NADC-MA-6214
N63-12717	06-16	NADC-MA-6218
N63-12718	06-06	NYO-9792
N63-12719	06-18	BM-RI-6170
N63-12720	06-03	DTMB-AERO-1043
N63-12721	06-23	TIL/T-5202
N63-12722	06-07	TIL/T-5363
N63-12723	06-10	AEDC-TDR-63-37
N63-12724	06-23	HW-73902 REV
N63-12725	06-17	HW-75499
N63-12726	06-23	HW-75526
N63-12727	06-15	ORNL-3378
N63-12728	06-29	SM-42582
N63-12729	06-11	FTD-TT-62-979/1&2&4
N63-12730	06-18	NO REPORT NUMBER
N63-12731	06-07	AFCRL-62-1116
N63-12732	06-12	AFCRL-63-219
N63-12733	06-18	NO REPORT NUMBER
N63-12734	06-24	IER SER. 60, ISSUE 458
N63-12735	06-23	IER SER. 60, ISSUE 459
N63-12736	06-20	NOLTR-62-177
N63-12737	06-11	WAPD-TM-342
N63-12738	06-16	SAM-TDR-62-112
N63-12739	06-16	AMRL-TDR-62-141
N63-12740	06-17	ANL-6652
N63-12741	06-20	AFCRL-62-1137
N63-12742	06-06	NAA-SR-7288
N63-12743	06-23	NUP-62-2
N63-12744	06-16	SAM-TDR-62-144
N63-12745	06-20	NO REPORT NUMBER
N63-12746	06-25	IER SER. 60, ISSUE 439
N63-12747	06-29	NO REPORT NUMBER
N63-12748	06-15	NO REPORT NUMBER
N63-12749	06-11	NO REPORT NUMBER
N63-12750	06-02	AEDC-TDR-63-20
N63-12751	06-15	ASD-TN-61-156
N63-12752	06-09	FTD-TT-62-759/1&2&4
N63-12753	06-20	FTD-TT-62-1148/1&2&4
N63-12754	06-13	FTD-TT-62-1459/1&2&4
N63-12755	06-06	NO REPORT NUMBER
N63-12756	06-07	ONR-TR-RLT-57
N63-12757	06-11	AROD-1830-1
N63-12758	06-21	NO REPORT NUMBER
N63-12759	06-12	AFCRL-62-1128
N63-12760	06-08	CAL-UB-1309-P-108
N63-12761	06-15	NO REPORT NUMBER
N63-12762	06-03	NACA-RM-SL54A06
N63-12763	06-03	NACA-RM-SL54C12
N63-12764	06-11	TR-1073
N63-12765	06-09	NAA-SR-7641
N63-12766	06-06	AFCRL-62-952
N63-12767	06-11	PSU-9-9
N63-12768	06-18	ARF-B224-5
N63-12769	06-23	BM-IC-8146
N63-12770	06-12	GCA-TR-62-18-G
N63-12771	06-23	NO REPORT NUMBER
N63-12772		ACC. NO. NOT USED
N63-12773		ACC. NO. NOT USED
N63-12774	06-33	ARL-SM-279
N63-12775	06-02	R-62-22
N63-12776	06-15	R-367
N63-12777	06-05	E-1172
N63-12778	06-19	BM-RI-6171
N63-12779	06-19	BM-RI-6174
N63-12780	06-18	BM-RI-6175
N63-12781	06-19	BM-RI-6177
N63-12782	06-16	SAM-TDR-62-103
N63-12783	06-09	AFCRL-62-957
N63-12784	06-17	DW-433
N63-12785	06-29	NO REPORT NUMBER
N63-12786	06-22	NO REPORT NUMBER
N63-12787	06-19	RADC-TDR-62-585
N63-12788	06-07	USNRDL-TR-607
N63-12789	06-12	AFCRL-62-1121
N63-12790	06-12	AFCRL-62-1088
N63-12791	06-24	MATT-159
N63-12792	06-24	MATT-163
N63-12793	06-24	MATT-164
N63-12794	06-09	NO REPORT NUMBER
N63-12795	06-28	RAD-TR-62-58
N63-12796	06-16	NO REPORT NUMBER
N63-12797	06-11	NO REPORT NUMBER
N63-12798	06-06	LB-31183
N63-12799	06-07	R62SD81
N63-12800	06-24	R62SD990
N63-12801	06-18	ARF-B765-25
N63-12802	06-07	AROD-3156-1
N63-12803	06-24	MATT-153
N63-12804	06-07	TP-40
N63-12805	06-02	TP-60
N63-12806	06-07	NO REPORT NUMBER
N63-12807	06-33	ARL-SM-103
N63-12808	06-09	NO REPORT NUMBER
N63-12809	06-23	NO REPORT NUMBER
N63-12810	06-01	PMR-TM-61-12
N63-12811	06-01	PMR-TM-61-19
N63-12812	06-23	WIS-TCI-8, SER. 3
N63-12813	06-05	NO REPORT NUMBER
N63-12814	06-20	AFCRL-62-955
N63-12815	06-08	NO REPORT NUMBER
N63-12816	06-05	NAI-56-755
N63-12817	06-15	FTD-TT-62-118/1&2&4
N63-12818	06-23	FTD-TT-62-758/1&2&4
N63-12819	06-08	FTD-TT-62-1193/1&2&4
N63-12820	06-13	FTD-TT-62-1200/1&2&4
N63-12821	06-17	FTD-TT-62-1357/1
N63-12822	06-11	NO REPORT NUMBER
N63-12823	06-14	NO REPORT NUMBER
N63-12824	06-16	NO REPORT NUMBER
N63-12825	06-16	NO REPORT NUMBER
N63-12826	06-06	R62SD71
N63-12827	06-25	NO REPORT NUMBER
N63-12828	06-12	AFCRL-62-959
N63-12829	06-07	NO REPORT NUMBER
N63-12830	06-08	NDRE-T-231
N63-12831	06-09	NO REPORT NUMBER
N63-12832	06-26	C-1960
N63-12833	06-01	SP-201
N63-12834	06-16	NO REPORT NUMBER
N63-12835	06-16	NO REPORT NUMBER
N63-12836	06-16	NO REPORT NUMBER
N63-12837	06-16	NO REPORT NUMBER
N63-12838	06-32	NO REPORT NUMBER
N63-12839	06-08	NO REPORT NUMBER
N63-12840	06-01	NO REPORT NUMBER
N63-12841	06-29	NO REPORT NUMBER
N63-12842	07-09	MS-709

N63-12843	07-26	SSD-TDR-62-172
N63-12844	07-16	NAS-NRC/PUB-977
N63-12845	07-16	NO REPORT NUMBER
N63-12846	07-16	NO REPORT NUMBER
N63-12847	07-16	NO REPORT NUMBER
N63-12848	07-16	NO REPORT NUMBER
N63-12849	07-16	NO REPORT NUMBER
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N63-12860	07-16	NO REPORT NUMBER
N63-12861	07-16	NO REPORT NUMBER
N63-12862	07-16	NO REPORT NUMBER
N63-12863	07-16	NO REPORT NUMBER
N63-12864	07-16	NO REPORT NUMBER
N63-12865	07-16	NO REPORT NUMBER
N63-12866	07-16	NO REPORT NUMBER
N63-12867	07-16	NO REPORT NUMBER
N63-12868	07-16	NO REPORT NUMBER
N63-12869	07-16	NO REPORT NUMBER
N63-12870	07-16	NO REPORT NUMBER
N63-12871	07-16	NO REPORT NUMBER
N63-12872	07-16	NO REPORT NUMBER
N63-12873	07-16	NO REPORT NUMBER
N63-12874	07-16	NO REPORT NUMBER
N63-12875	07-06	NO REPORT NUMBER
N63-12876	07-16	NO REPORT NUMBER
N63-12877	07-16	SAM-TDR-62-137
N63-12878	07-07	ARF-3227-1
N63-12879	07-05	IAS PAPER-63-1
N63-12880	07-28	IAS PAPER-63-2
N63-12881	07-28	IAS PAPER-63-3
N63-12882	07-07	IAS PAPER-63-4
N63-12883	07-04	IAS PAPER-63-5
N63-12884	07-14	IAS PAPER-63-15
N63-12885	07-14	IAS PAPER-63-18
N63-12886	07-27	IAS PAPER-63-19
N63-12887	07-33	IAS PAPER-63-22
N63-12888		ACC. NO. NOT USED
N63-12889	07-04	IAS PAPER-63-27
N63-12890	07-32	IAS PAPER-63-36
N63-12891	07-13	IAS PAPER-63-41
N63-12892	07-32	IAS PAPER-63-43
N63-12893	07-29	IAS PAPER-63-48
N63-12894	07-29	IAS-PAPER-63-50
N63-12895	07-03	NO REPORT NUMBER
N63-12896	07-27	IAS-PAPER-63-75
N63-12897	07-27	IAS-PAPER-63-76
N63-12898	07-13	IAS-PAPER-63-77
N63-12899	07-32	IAS-PAPER-63-79
N63-12900	07-29	IAS-PAPER-63-84
N63-12901	07-29	IAS PAPER-63-85
N63-12902	07-22	IAS-PAPER-63-86
N63-12903	07-17	NRL MEMO-221
N63-12904	07-18	TDR-930/2411/TN-1
N63-12905	07-12	NO REPORT NUMBER
N63-12906	07-20	NO REPORT NUMBER
N63-12907	07-27	NACA-RM-E56E14
N63-12908	07-27	NACA-TN-E57C29
N63-12909	07-27	NACA-RM-E58C19A
N63-12910	07-03	NACA-RM-L56E22
N63-12911	07-03	NACA-RM-L58E12
N63-12912	07-02	NASA-MEMO-1-8-59A
N63-12913	07-02	NASA-MEMO-1-2-59E
N63-12914	07-03	NASA-TM-X-182
N63-12915	07-03	NASA-TM-X-211
N63-12916	07-02	NASA-TM-X-272
N63-12917	07-04	NASA-TM-X-218
N63-12918	07-02	NASA-TM-X-288
N63-12919	07-13	E-1173
N63-12920	07-30	DCAS-TDR-62-190
N63-12921	07-23	JPL-TR-32-302
N63-12922	07-29	JPL-TR-32-374
N63-12923	07-19	NO REPORT NUMBER
N63-12924	07-01	BNL-742/AS-16/
N63-12925	07-23	BNL-767/C-36/
N63-12926	07-18	NASA-TN-D-1310
N63-12927	07-03	NASA-TN-D-1501
N63-12928	07-29	NASA-TN-D-1539
N63-12929	07-29	NASA-TN-D-1556
N63-12930	07-11	NASA-TN-D-1651
N63-12931	07-27	NASA-TN-D-1658
N63-12932	07-29	NASA-TN-D-1701
N63-12933	07-24	TCREC-TR-62-82
N63-12934	07-09	R-157
N63-12935	07-15	AML-6636
N63-12936	07-10	NO REPORT NUMBER
N63-12937	07-15	DP-800
N63-12938	07-17	SM-42911
N63-12939	07-23	UCRL-10321
N63-12940	07-07	UCRL-10404
N63-12941	07-07	UCRL-10494
N63-12942	07-15	UCRL-10526
N63-12943	07-23	NCRL-10615
N63-12944	07-18	R-3350-3
N63-12945	07-09	AFCRL-62-965
N63-12946	07-16	UCLA 510
N63-12947	07-17	HW-67949-REV
N63-12948	07-06	NASA-TN-D-1545
N63-12949	07-24	NASA-TN-D-1551
N63-12950	07-02	NASA-TN-D-1612
N63-12951	07-15	NASA-TN-D-1724
N63-12952	07-33	NASA-TM-X-53
N63-12953	07-04	NASA-TM-X-71
N63-12954	07-09	RADC-TDR-63-17
N63-12955	07-07	TIL/T-5370
N63-12956	07-26	RX-TR-63-1
N63-12957	07-09	RG-TR-63-5
N63-12958	07-12	CR-49
N63-12959	07-12	NO REPORT NUMBER
N63-12960	07-23	NO REPORT NUMBER
N63-12961	07-24	A-2
N63-12962	07-23	A-8
N63-12963	07-24	A-9
N63-12964	07-24	A-10
N63-12965	07-24	A-12
N63-12966	07-15	NOLC-558
N63-12967	07-23	NO REPORT NUMBER
N63-12968	07-14	HUMRRO-TR-80
N63-12969	07-14	HUMRRO-TR-80, SUPPL.
N63-12970	07-09	NO REPORT NUMBER
N63-12971	07-21	NO REPORT NUMBER
N63-12972	07-13	NASA-TM-X-85
N63-12973	07-10	AEET/NP/5
N63-12974	07-04	NASA-TM-X-5
N63-12975	07-02	NASA-TM-X-24
N63-12976	07-02	NASA-TM-X-26
N63-12977	07-04	NASA-TM-X-36
N63-12978	07-03	NASA-TM-X-61
N63-12979	07-04	NASA-TM-X-72
N63-12980	07-02	NASA-TM-X-92
N63-12981	07-02	NASA-TM-X-115
N63-12982	07-03	NASA-TM-X-138
N63-12983	07-02	NASA-TM-X-179
N63-12984	07-02	NASA-TM-X-193
N63-12985	07-24	MF-33
N63-12986	07-09	AFCRL-62-923
N63-12987	07-11	ARAP-47
N63-12988	07-23	NO REPORT NUMBER
N63-12989	07-07	ORNL-3389
N63-12990	07-23	ORNL-3406
N63-12991	07-23	LA-2765
N63-12992	07-20	LAMS-2801
N63-12993	07-18	LA-2828
N63-12994	07-04	TCREC-TR-62-101
N63-12995	07-04	TCREC-TR-62-3A
N63-12996	07-04	TCREC-TR-62-38
N63-12997	07-22	RG-TR-63-4
N63-12998	07-18	BMI-1609
N63-12999	07-19	BMI-1610
N63-13000	07-33	AAE-62-1
N63-13001	07-11	SM-42492
N63-13002	07-02	SM-42567
N63-13003	07-02	SM-42603
N63-13004	07-02	SM-42649
N63-13005	07-08	NRL-5847
N63-13006	07-16	AMRL-TDR-62-130
N63-13007	07-26	RTD-TDR-63-3
N63-13008	07-15	RADC-TDR-62-600
N63-13009	07-03	ASD-TDR-62-1023
N63-13010	07-21	NEL-1150
N63-13011	07-13	NADC-MA-6216
N63-13012	07-15	NEL-1151
N63-13013	07-13	NADC-MA-6217
N63-13014	07-12	NO REPORT NUMBER
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N63-13016	07-20	NO REPORT NUMBER
N63-13017	07-16	NO REPORT NUMBER
N63-13018	07-33	NO REPORT NUMBER
N63-13019	07-11	GASL-TM-76
N63-13020	07-20	AFCRL-62-795
N63-13021	07-04	NO REPORT NUMBER
N63-13022	07-05	NO REPORT NUMBER

N63-13023	07-08	NO REPORT NUMBER
N63-13024	07-07	ANL-6596
N63-13025	07-26	ANL-6644
N63-13026	07-20	RFP-297
N63-13027	07-13	NAA-SR-7954
N63-13028	07-25	NO REPORT NUMBER
N63-13029	07-07	BM-RI-6178
N63-13030	07-32	R-415-NASA
N63-13031	07-08	NBS-TN-165
N63-13032	07-12	NO REPORT NUMBER
N63-13033	07-15	NO REPORT NUMBER
N63-13034	07-26	NAA-SR-7736
N63-13035	07-26	CM-1028
N63-13036	07-11	AEDC-TDR-63-21
N63-13037	07-07	RM-IC-8147
N63-13038	07-07	BM-RI-6182
N63-13039	07-20	RG-TR-63-8
N63-13040	07-30	RS-TR-62-6
N63-13041	07-26	WAPD-TM-332
N63-13042	07-05	NO REPORT NUMBER
N63-13043	07-08	NO REPORT NUMBER
N63-13044	07-15	NO REPORT NUMBER
N63-13045	07-28	NO REPORT NUMBER
N63-13046	07-23	UCRL-7087
N63-13047	07-24	UCRL-7115
N63-13048	07-15	BRL-1182
N63-13049	07-12	AFCRL-63-212
N63-13050	07-33	SUDAER-141
N63-13051	07-04	RAC-1012
N63-13052	07-18	ARDD-2064-4
N63-13053	07-23	ARDD-2588-3
N63-13054	07-18	Q-B1973-1
N63-13055	07-23	ARDD-2510-10
N63-13056	07-23	IER REPR.-110-62
N63-13057	07-23	IER REPR.-7-63
N63-13058	07-23	DASA-1348
N63-13059	07-30	HSA-93
N63-13060	07-02	A-1771-16
N63-13061	07-11	JPL-TR-32-363
N63-13062	07-33	JPL-TR-32-372
N63-13063	07-33	ASD-TDR-62-973
N63-13064	07-01	NSF-62-49
N63-13065	07-18	ANL-6591
N63-13066	07-18	ANL-6631
N63-13067	07-23	ANL-6673
N63-13068	07-23	ANL-6683
N63-13069	07-33	NO REPORT NUMBER
N63-13070	07-24	NO REPORT NUMBER
N63-13071	07-26	DMIC-MEMO-163
N63-13072	07-08	NO REPORT NUMBER
N63-13073	07-16	UCRL-10589
N63-13074	07-09	ACORN-24
N63-13075	07-07	NO REPORT NUMBER
N63-13076	07-23	NO REPORT NUMBER
N63-13077	07-17	RAC-509
N63-13078	07-20	NEL-1152
N63-13079	07-16	USNRDL-TR-611
N63-13080	07-11	JPL-TR-32-351
N63-13081	07-26	NO REPORT NUMBER
N63-13082	07-26	NO REPORT NUMBER
N63-13083	07-14	NO REPORT NUMBER
N63-13084	07-14	NO REPORT NUMBER
N63-13085	07-11	NAVORD-4185
N63-13086	07-17	MTI-62TR40
N63-13087	07-11	E-118.12
N63-13088	07-15	AFCRL-62-1008
N63-13089	07-07	NO REPORT NUMBER
N63-13090	07-15	NO REPORT NUMBER
N63-13091	07-12	NO REPORT NUMBER
N63-13092	07-07	PWAC-378
N63-13093	07-17	NO REPORT NUMBER
N63-13094	07-23	NO REPORT NUMBER
N63-13095	07-20	NO REPORT NUMBER
N63-13096	07-28	NASA-TN-D-1472
N63-13097	07-08	NASA-TN-D-1542
N63-13098	07-10	NASA-TN-D-1598
N63-13099	07-22	NASA-TN-D-1604
N63-13100	07-03	NASA-TN-D-1650
N63-13101	07-09	NASA-TN-D-1677
N63-13102	07-28	NASA-TN-D-1679
N63-13103	07-28	NASA-TN-D-1696
N63-13104	07-32	NASA-TN-D-1719
N63-13105	07-02	NASA-TR-R-123
N63-13106	07-02	NASA-TR-R-133
N63-13107	07-04	NACA-RM-A57D11
N63-13108	07-02	NASA-TM-X-56
N63-13109	07-26	CAL-86-P
N63-13110	07-11	NO REPORT NUMBER
N63-13111	07-29	NO REPORT NUMBER
N63-13112	07-21	SAD-100
N63-13113	07-15	ASD-TDR-62-924
N63-13114	07-03	NACA-RM-A55J07
N63-13115	07-12	AFOSR-420
N63-13116	07-11	GASL-TR-338
N63-13117	07-17	RIA-62-3441
N63-13118	07-17	RIA-62-3600
N63-13119	07-07	RIA-62-4162
N63-13120	07-07	RIA-62-4163
N63-13121	07-23	NO REPORT NUMBER
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N63-13123	07-23	NO REPORT NUMBER
N63-13124	07-25	NO REPORT NUMBER
N63-13125	07-15	NO REPORT NUMBER
N63-13126	07-24	NO REPORT NUMBER
N63-13127	07-24	NO REPORT NUMBER
N63-13128	07-18	WAL-TR-401/303
N63-13129	07-24	NO REPORT NUMBER
N63-13130	07-01	RAE-TRANS-1017
N63-13131	07-07	NO REPORT NUMBER
N63-13132	07-07	NO REPORT NUMBER
N63-13133	07-07	NO REPORT NUMBER
N63-13134	07-23	NO REPORT NUMBER
N63-13135	07-23	WAL-TR-830.5/5
N63-13136	07-07	JPL-TR-32-357
N63-13137	07-11	TRG-153-SR-2
N63-13138	07-17	TR-371-9/4
N63-13139	07-01	RAC-TP-72
N63-13140	07-23	AFOSR-2661
N63-13141	07-18	NO REPORT NUMBER
N63-13142	07-16	AMRL-TDR-62-127
N63-13143	07-16	AMRL-TDR-62-128
N63-13144	07-23	AMRL-TDR-62-140/III/
N63-13145	07-16	AMRL-TDR-62-143
N63-13146	07-01	MRL-TDR-62-4
N63-13147	07-09	RADC-TDR-63-4
N63-13148	07-23	BM-RI-6180
N63-13149	07-23	BM-RI-6191
N63-13150	07-09	AFCRL-62-973
N63-13151	07-29	NO REPORT NUMBER
N63-13152	07-29	NO REPORT NUMBER
N63-13153	07-09	AFCRL-62-724
N63-13154	07-08	RE-TR-63-1
N63-13155	07-22	RG-TR-63-7
N63-13156	07-07	LAMS-2832
N63-13157	07-09	W-J-62-609R5
N63-13158	07-31	SLV-1B-3
N63-13159	07-09	PIBMRI-1078-62
N63-13160	07-11	CARDE-TM-726/63
N63-13161	07-08	NO REPORT NUMBER
N63-13162	07-08	NO REPORT NUMBER
N63-13163	07-31	NO REPORT NUMBER
N63-13164	07-08	MATRIX-62-11
N63-13165	07-20	AFOSR-2443
N63-13166	07-18	BM-RI-6183
N63-13167	07-28	NO REPORT NUMBER
N63-13168	07-29	NO REPORT NUMBER
N63-13169		ACC. NO. NOT USED
N63-13170	07-05	NO REPORT NUMBER
N63-13171	07-07	NO REPORT NUMBER
N63-13172	07-17	SA-TR20-2313
N63-13173	07-12	NO REPORT NUMBER
N63-13174	07-33	NO REPORT NUMBER
N63-13175	07-18	FTD-TT-62-430/182
N63-13176	07-12	NO REPORT NUMBER
N63-13177	07-23	ARL-63-8
N63-13178	07-16	AMRL-TDR-62-146
N63-13179	07-29	NO REPORT NUMBER
N63-13180	07-04	NASA-TN-D-1432
N63-13181	07-03	NASA-TN-D-1505
N63-13182	07-10	NASA-TN-D-1560
N63-13183	07-18	NASA-TN-D-1592
N63-13184	07-01	NASA-TN-D-1596
N63-13185	07-03	NASA-TN-D-1603
N63-13186	07-02	NASA-TN-D-1605
N63-13187	07-08	NASA-TN-D-1610
N63-13188	07-30	NASA-TN-D-1617
N63-13189	07-07	NASA-TN-D-1825
N63-13190	07-23	NO REPORT NUMBER
N63-13191	07-01	NO REPORT NUMBER
N63-13192	07-23	AMRL-TDR-62-140/II/
N63-13193	07-27	NACA-RM-E53D29
N63-13194	07-29	NO REPORT NUMBER
N63-13195	07-23	LA-2811
N63-13196	07-11	NO REPORT NUMBER
N63-13197	07-25	ARF-3190-6
N63-13198	07-18	ASD-TDR-62-756
N63-13199	07-23	IS-313
N63-13200	07-23	IDO-14601
N63-13201	07-23	GEAP-3743
N63-13202	07-09	NO REPORT NUMBER

N63-13203 07-02 ..... BRL-MEMO-1440
N63-13204 07-20 ..... RAW-TM-63-2
N63-13205 07-19 ..... ONR-TR-RLT-58
N63-13206 07-16 ..... USNRDL-TR-606
N63-13207 07-19 ..... NAA-SR-7654
N63-13208 07-23 ..... BMI-1613
N63-13209 07-18 ..... ASD-TDR-62-1087, PT. I
N63-13210 07-25 ..... AFCRL-62-944
N63-13211 07-23 ..... SSD-TDR-62-127, VOL. II
N63-13212 07-23 ..... AEC-TR-3352
N63-13213 07-01 ..... NO REPORT NUMBER
N63-13214 07-07 ..... NO REPORT NUMBER
N63-13215 07-05 ..... NO REPORT NUMBER
N63-13216 07-03 ..... NASA-MEMO-6-9-59A
N63-13217 07-23 ..... NASA-TN-D-1553
N63-13218 07-27 ..... NASA-TN-D-1575
N63-13219 07-06 ..... NASA-TN-D-1608
N63-13220 07-15 ..... NASA-TN-D-1715
N63-13221 07-03 ..... NO REPORT NUMBER
N63-13222 07-16 ..... NASA-TT-F-130
N63-13223 07-16 ..... NASA-TT-F-131
N63-13224 07-20 ..... AROD-223-59
N63-13225 07-23 ..... NBS-7641
N63-13226 07-07 ..... AFCRL-62-1051
N63-13227 07-20 ..... AFCRL-62-964
N63-13228 07-23 ..... NO REPORT NUMBER
N63-13229 07-20 ..... NO REPORT NUMBER
N63-13230 07-15 ..... RG-TR-62-5
N63-13231 07-23 ..... GA-3873
N63-13232 07-09 ..... RADC-TDR-62-497
N63-13233 07-01 ..... NO REPORT NUMBER
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N63-13247 07-18 ..... NO REPORT NUMBER
N63-13248 07-13 ..... IS-587
N63-13249 07-26 ..... RMD-5507-F
N63-13250 07-23 ..... ORNL-3365
N63-13251 07-04 ..... NASA-TT-F-87
N63-13252 07-04 ..... NO REPORT NUMBER
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N63-13264 07-12 ..... NO REPORT NUMBER
N63-13265 07-21 ..... AFCRL-62-889
N63-13266 07-01 ..... EUR-110.E
N63-13267 07-18 ..... EUR-132.F
N63-13268 07-16 ..... NO REPORT NUMBER
N63-13269 07-03 ..... SUDAER-138
N63-13270 07-20 ..... ARDD-1323-24
N63-13271 07-28 ..... AFCRL-63-214
N63-13272 07-07 ..... ARF-3227-2
N63-13273 07-29 ..... NO REPORT NUMBER
N63-13274 07-18 ..... NO REPORT NUMBER
N63-13275 07-07 ..... JPL-TR-32-310
N63-13276 07-01 ..... K-1534
N63-13277 07-23 ..... AMRL-TDR-62-140/I/
N63-13278 07-25 ..... NO REPORT NUMBER
N63-13279 07-18 ..... NO REPORT NUMBER
N63-13280 07-21 ..... NO REPORT NUMBER
N63-13281 07-10 ..... NACA-RM-E53D20
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N63-13283 07-20 ..... NASA-TN-D-1534
N63-13284 07-11 ..... NO REPORT NUMBER
N63-13285 07-12 ..... BRL-1163
N63-13286 07-12 ..... AFCRL-63-209
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N63-13290 07-15 ..... ARL/ME-251
N63-13291 07-33 ..... NO REPORT NUMBER
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N63-13293 07-33 ..... NO REPORT NUMBER
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N63-13296 07-08 ..... AEDC-TDR-63-36
N63-13297 07-07 ..... NO REPORT NUMBER
N63-13298 07-33 ..... ASAL-TR-94-3
N63-13299 07-04 ..... NO REPORT NUMBER
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N63-13301 07-30 ..... NO REPORT NUMBER
N63-13302 07-02 ..... NO REPORT NUMBER
N63-13303 07-15 ..... NASA-TN-D-1571
N63-13304 07-12 ..... AFCRL-63-215
N63-13305 07-18 ..... AGN-TM-401
N63-13306 07-23 ..... IDO-28600
N63-13307 07-07 ..... ORNL-3396
N63-13308 07-20 ..... NO REPORT NUMBER
N63-13309 07-01 ..... BMI-1603/DEL./
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N63-13311 07-18 ..... BM-RI-6195
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N63-13313 07-23 ..... BM-RI-6198
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N63-13327 08-07 ..... A62-15
N63-13328 08-07 ..... A62-16
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N63-13332 08-20 ..... MRC-364
N63-13333 08-20 ..... MRC-368
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N63-13336 08-20 ..... MRC-375
N63-13337 08-20 ..... MRC-377
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N63-13339 08-11 ..... TDR-169/3230-12/TN-5
N63-13340 08-08 ..... NO REPORT NUMBER
N63-13341 08-07 ..... NRL-5816
N63-13342 08-16 ..... SAM-TDR-62-89
N63-13343 08-20 ..... AROD-2934-3
N63-13344 08-20 ..... AROD-2934-7
N63-13345 08-20 ..... AROD-2934-8
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N63-13372 08-17 ..... LAMS-2800
N63-13373 08-01 ..... BMI-1607/DEL./
N63-13374 08-07 ..... AROD-2276-4
N63-13375 08-07 ..... AROD-2786-2
N63-13376 08-11 ..... OTMB-1476
N63-13377 08-08 ..... MEL-1155
N63-13378 08-23 ..... TID-16273
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N63-13400	08-11	NO REPORT NUMBER
N63-13401	08-11	NO REPORT NUMBER
N63-13402	08-11	NO REPORT NUMBER
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N63-13411	08-04	RG-TR-62-6
N63-13412	08-04	RS-TR-62-9
N63-13413	08-15	RG-TR-63-1
N63-13414	08-17	LAMS-2797
N63-13415	08-17	LAMS-2798
N63-13416	08-17	LAMS-2799
N63-13417	08-10	ORA-63-1
N63-13418	08-13	ORA-63-2
N63-13419	08-18	MLM-1147-TR
N63-13420	08-14	AMRL-TDR-62-104
N63-13421	08-16	AMRL-TDR-62-121
N63-13422	08-25	AF-99
N63-13423	08-08	AF-100
N63-13424	08-15	AEDC-TDR-63-29
N63-13425	08-13	AEDC-TDR-63-43
N63-13426	08-08	NO REPORT NUMBER
N63-13427	08-23	AFCRL-63-7
N63-13428	08-15	GEMP-177C
N63-13429	08-25	NO REPORT NUMBER
N63-13430	08-33	PIBAL-658
N63-13431	08-33	ASME PAPER-62-WA-28
N63-13432	08-23	AROD-2543-8
N63-13433	08-20	ARL-62-458
N63-13434	08-20	ARL-62-478
N63-13435	08-07	AROD-2757-1
N63-13436	08-29	RAL-TM-63-2
N63-13437	08-33	AROD-2891-5
N63-13438	08-11	AROD-3005-4
N63-13439	08-10	JPL-SPS-37-19, VOL. III
N63-13440	08-16	JPL-TR-32-325
N63-13441	08-13	JPL-TR-32-340
N63-13442	08-19	JPL-TR-32-360
N63-13443	08-05	JPL-TR-32-361
N63-13444	08-07	JPL-TR-32-362
N63-13445	08-33	JPL-TR-32-365
N63-13446	08-23	JPL-TR-32-373
N63-13447	08-02	JPL-TR-32-378
N63-13448	08-29	JPL-TR-32-379
N63-13449	08-29	JPL-TR-32-384
N63-13450	08-20	JPL-TR-32-390
N63-13451	08-14	JPL-TR-32-391
N63-13452	08-02	GASL-TR-256 I
N63-13453	08-02	GASL-TR-256 II
N63-13454	08-07	GASL-TR-282
N63-13455	08-07	GASL-TR-292
N63-13456	08-10	AEDC-TDR-62-231
N63-13457	08-17	NO REPORT NUMBER
N63-13458	08-23	ORNL-3392
N63-13459	08-15	BM-RI-6181
N63-13460	08-15	MIT-TR-176
N63-13461	08-07	EXP-223/1
N63-13462	08-26	EXP-223/2
N63-13463	08-07	NO REPORT NUMBER
N63-13464	08-13	R61SD145
N63-13465	08-11	R62SD989
N63-13466	08-20	NO REPORT NUMBER
N63-13467	08-25	NO REPORT NUMBER
N63-13468	08-25	NO REPORT NUMBER
N63-13469	08-24	NO REPORT NUMBER
N63-13470	08-21	AINA RES. PAPER-24
N63-13471	08-07	JPL-TR-32-129
N63-13472	08-18	NO REPORT NUMBER
N63-13473	08-33	SUDAER-142
N63-13474	08-13	SUDAER-143
N63-13475	08-32	SAO SPECIAL REPT.-9
N63-13476	08-07	GASL-TR-180
N63-13477	08-02	GASL-TR-231
N63-13478	08-11	GASL-TR-246
N63-13479	08-11	GASL-TR-249
N63-13480	08-08	NO REPORT NUMBER
N63-13481	08-04	NO REPORT NUMBER
N63-13482	08-12	NO REPORT NUMBER
N63-13483	08-11	GASL-TR-182
N63-13484	08-08	JPL-TR-32-280
N63-13485	08-01	JPL-SPS-37-18, VOL. IV
N63-13486	08-29	JPL-TM-33-99
N63-13487	08-17	AROD-2458-4
N63-13488	08-24	MATT-166
N63-13489	08-24	MATT-174
N63-13490	08-33	ASD-TDR-62-109
N63-13491	08-34	ASD-TDR-62-109
N63-13492	08-34	NRL-5892
N63-13493	08-11	BRL-1173
N63-13494	08-03	AASU-228
N63-13495	08-33	AASU-231
N63-13496	08-33	GEAP-3983
N63-13497	08-26	GEAP-4058
N63-13498	08-18	GEAP-4060
N63-13499	08-18	GEAP-4095
N63-13500	08-13	TID-3574
N63-13501	08-07	TID-17508
N63-13502	08-11	SC-4752/RR/
N63-13503	08-33	DMIC-MEMO-164
N63-13504	08-24	MATT-158
N63-13505	08-33	ASD-TDR-62-634
N63-13506	08-04	TCREC-TR-62-22
N63-13507	08-25	TCREC-TR-62-112
N63-13508	08-02	AGARDOGRAPH-64
N63-13509	08-02	NO REPORT NUMBER
N63-13510	08-02	NO REPORT NUMBER
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N63-13517	08-23	NO REPORT NUMBER
N63-13518	08-20	ASD-TDR-62-470
N63-13519	08-34	NSL-62-132-2
N63-13520	08-13	NO REPORT NUMBER
N63-13521	08-11	USCEC-65-35
N63-13522	08-33	AFSWC-TDR-62-134
N63-13523	08-26	AFCRL-63-246
N63-13524	08-12	NO REPORT NUMBER
N63-13525	08-20	IMM-NYU-307
N63-13526	08-19	ONERA-TN-70-1962
N63-13527	08-11	ONERA-107/1962/
N63-13528	08-11	ONERA-109/1962/
N63-13529	08-17	Q-81973-2
N63-13530	08-20	NO REPORT NUMBER
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N63-13534	08-23	NO REPORT NUMBER
N63-13535	08-18	NO REPORT NUMBER
N63-13536	08-23	BM-RI-6200
N63-13537	08-32	NASA FACTS-A-1-63
N63-13538	08-16	SAM-TDR-62-117
N63-13539	08-17	NASA-TT-F-140
N63-13540	08-33	AROD-2028-14
N63-13541	08-03	ARC-CP-606
N63-13542	08-01	NO REPORT NUMBER
N63-13543	08-33	ASD-TDR-62-399
N63-13544	08-20	ASD-TDR-62-362
N63-13545	08-18	ER-4774
N63-13546	08-21	NO REPORT NUMBER
N63-13547	08-25	AFOSR-951
N63-13548	08-31	NASA-TN-D-1611
N63-13549	08-15	NO REPORT NUMBER
N63-13550	08-11	GASL-TR-337
N63-13551	08-23	BNL-746/T-272/
N63-13552	08-20	BNL-757/T-280/
N63-13553	08-19	BNL-758/T-281/
N63-13554	08-16	AID-S-63-25
N63-13555	08-34	RAC-973
N63-13556	08-18	RAC-1032
N63-13557	08-24	RAC-1054
N63-13558	08-06	RAC-1047
N63-13559	08-24	R63SD16
N63-13560	08-21	AFCRL-63-223
N63-13561	08-23	NYO-9657
N63-13562	08-02	NASA-TN-D-1606

N63-13563	08-23	UCRL-10347
N63-13564	08-13	UCRL-10527
N63-13565	08-23	UCRL-10562
N63-13566	08-26	E13-63
N63-13567	08-10	NAMC-ASL-1042
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N63-13569		ACC. NO. NOT USED
N63-13570		ACC. NO. NOT USED
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N63-13572	08-27	NO REPORT NUMBER
N63-13573	08-16	USNRDL-TR-608
N63-13574	08-18	BMI-1616
N63-13575	08-15	UCRL-7036, PT. 6
N63-13576	08-07	ANL-6663
N63-13577	08-28	SC-4759/RR/
N63-13578	08-15	NO REPORT NUMBER
N63-13579	08-27	NO REPORT NUMBER
N63-13580	08-07	FTD-TT-62-1261/1&4
N63-13581	08-07	FTD-TT-62-1604/1&2&4
N63-13582	08-01	JPL-SPS-37-19, VOL. IV
N63-13583	08-18	FTD-TT-62-1273/1&2&4
N63-13584	08-09	FTD-TT-62-1436/1&2&4
N63-13585	08-07	FTD-TT-62-1529/1&2&4
N63-13586	08-21	FTD-TT-62-1679/1&2
N63-13587	08-32	NO REPORT NUMBER
N63-13588	08-16	SAM-TDR-62-132
N63-13589	08-20	SAM-TDR-62-149
N63-13590	08-08	NO REPORT NUMBER
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N63-13598	08-29	JPL-TR-32-399
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N63-13628	08-09	IDO-16823
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N63-13655	08-17	RD-63-105
N63-13656	08-17	AEDC-TDR-63-28
N63-13657	08-11	AEDC-TDR-63-31
N63-13658	08-11	AEDC-TDR-63-35
N63-13659	08-20	ACR-63
N63-13660	08-04	AGARD-408
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N63-13662	08-28	AFCRL-63-242
N63-13663	08-23	NO REPORT NUMBER
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N63-13680	08-11	NO REPORT NUMBER
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N63-13684	08-23	AFCRL-63-233
N63-13685	08-21	AFCRL-63-237
N63-13686	08-12	AFCRL-63-261
N63-13687	08-23	AFCRL-62-1053
N63-13688	08-12	AFCRL-62-1054
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N63-13693	08-01	TID-11295 /2ND ED./
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N63-13703	08-04	DTMB-AERD-1047
N63-13704	08-15	JPL-AI/LS-205
N63-13705	08-09	RADC-TDR-62-547
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N63-13722	08-28	NASA-TN-D-1717
N63-13723	08-29	NASA-TR-R-148
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N63-13725	08-21	RAE-TRANS-1018
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N63-13738	08-32	AAS-62-81
N63-13739	08-07	TIL/T-5368
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N63-13742	08-06	TID-3561 /REV. 3/

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N63-13893 09-19 ..... NASA-TM-X-114
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N63-13929	09-24	JPL-TR-32-86
N63-13930	09-07	JPL-TR-32-288
N63-13931	09-01	JPL-BIBL-39-4/1/
N63-13932	09-12	AFCRL-63-252
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N63-13934	09-20	WAPD-TM-364
N63-13935	09-20	RM-3376-JPL
N63-13936	09-33	WADD-TR-61-42, PT. 2
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N63-13938	09-16	AMRL-TDR-62-147
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N63-13951	09-26	NASA-TN-D-1576
N63-13952	09-29	RAE-TRANS-1019
N63-13953	09-12	RAE-TRANS-1023
N63-13954	09-23	HW-76228
N63-13955	09-23	SSD-TDR-62-154, VOL. II
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N63-13958	09-18	NO REPORT NUMBER
N63-13959	09-12	NO REPORT NUMBER
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N63-13967	09-33	ARC-R&M-3309
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N63-13979	09-11	SM-62-49
N63-13980	09-17	WAL-TR-460.54/1-2
N63-13981	09-17	ER-12759
N63-13982	09-07	RMD-5009-Q3
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N63-13989	09-08	AFCRL-62-727
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N63-13997	09-01	DME/NAE-1962/4/
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N63-14023	09-33	GDC-62-55A
N63-14024	09-34	NO REPORT NUMBER
N63-14025	09-31	NASA-TN-D-1275
N63-14026	09-15	NASA-TN-D-1663
N63-14027	09-12	NASA-TN-D-1751
N63-14028	09-22	NASA-TN-D-1765
N63-14029	09-02	NASA-TN-D-1768
N63-14030	09-23	TR62-209A
N63-14031	09-11	TR62-209E
N63-14032	09-11	TR62-209F
N63-14033	09-11	TR62-209G
N63-14034	09-10	TR-62-213
N63-14035	09-12	GCA-TR-62-3-G
N63-14036	09-12	NO REPORT NUMBER
N63-14037	09-12	GCA-TR-62-13-G
N63-14038	09-12	GCA-TR-62-14-G
N63-14039	09-12	GCA-TR-62-15-G
N63-14040	09-24	MATT-Q-20
N63-14041	09-11	MIT-DSR-8951
N63-14042	09-19	NO REPORT NUMBER
N63-14043	09-23	SSD-TDR-62-154, VOL. I.
N63-14044	09-14	MRL-TDR-62-79
N63-14045	09-07	BM-RI-6209
N63-14046	09-12	NO REPORT NUMBER
N63-14047	09-08	W-J-63-615R3
N63-14048	09-23	NO REPORT NUMBER
N63-14049	09-23	SMIR-62-7
N63-14050	09-23	SMIR-62-7, APPENDIX
N63-14051	09-33	HW-76158
N63-14052	09-20	WAPD-TM-352
N63-14053	09-20	ORA-63-5
N63-14054	09-23	AROD-1579-10
N63-14055	09-10	ASD-TDR-63-91
N63-14056	09-18	ARF-2208-16
N63-14057	09-27	ASD-TDR-62-578
N63-14058	09-33	ASD-TDR-62-829
N63-14059	09-20	AFCRL-62-779
N63-14060	09-23	NYO-10250
N63-14061	09-23	NO REPORT NUMBER
N63-14062	09-26	NO REPORT NUMBER
N63-14063	09-25	NO REPORT NUMBER
N63-14064	09-30	AFCRL-63-20L
N63-14065	09-07	WIS-TCI-10, SER. 3
N63-14066	09-23	WIS-TCI-11, SER. 3
N63-14067	09-33	AROD-3065-1
N63-14068	09-21	NO REPORT NUMBER
N63-14069	09-26	NO REPORT NUMBER
N63-14070	09-20	NO REPORT NUMBER
N63-14071	09-11	NO REPORT NUMBER
N63-14072	09-16	NO REPORT NUMBER
N63-14073	09-07	SB-62-63
N63-14074	09-07	ASD-TR-7-995 /1/
N63-14075	09-23	AROD-3251-1
N63-14076	09-13	ANL-6660
N63-14077	09-12	NO REPORT NUMBER
N63-14078	09-18	NO REPORT NUMBER
N63-14079	09-23	UCRL-10523
N63-14080	09-23	UCRL-10572
N63-14081	09-12	UCRL-10587
N63-14082	09-23	UCRL-10625
N63-14083	09-23	UCRL-10630
N63-14084	09-23	FRL-TN-137
N63-14085	09-23	NO REPORT NUMBER
N63-14086		ACC. NO. NOT USED
N63-14087	09-29	CRSR-139
N63-14088	09-08	RE-TR-63-2
N63-14089	09-24	RADC-TDR-62-489
N63-14090	09-07	AFCRL-63-260
N63-14091	09-21	AFCRL-63-257
N63-14092	09-12	AFCRL-62-229
N63-14093	09-33	CDA-137
N63-14094	09-23	AFCRL-62-706
N63-14095	09-21	NO REPORT NUMBER
N63-14096	09-08	TR-1093
N63-14097	09-33	T&AM-240
N63-14098	09-26	AERONAUTICAL ENG. REPT.-635A
N63-14099	09-11	NO REPORT NUMBER
N63-14100	09-10	NO REPORT NUMBER
N63-14101	09-32	NO REPORT NUMBER
N63-14102	09-22	ASD-TDR-63-74

N63-14103	09-29	GA-3961
N63-14104	09-01	NO REPORT NUMBER
N63-14105	09-23	NO REPORT NUMBER
N63-14106	09-08	NO REPORT NUMBER
N63-14107	09-08	NO REPORT NUMBER
N63-14108	09-20	NO REPORT NUMBER
N63-14109	09-11	NO REPORT NUMBER
N63-14110	09-15	NO REPORT NUMBER
N63-14111	09-23	NO REPORT NUMBER
N63-14112	09-07	NO REPORT NUMBER
N63-14113	09-01	NO REPORT NUMBER
N63-14114	09-33	NO REPORT NUMBER
N63-14115	09-03	NO REPORT NUMBER
N63-14116	09-33	NO REPORT NUMBER
N63-14117	09-33	NO REPORT NUMBER
N63-14118	09-33	NO REPORT NUMBER
N63-14119	09-33	NO REPORT NUMBER
N63-14120	09-20	NO REPORT NUMBER
N63-14121	09-32	NO REPORT NUMBER
N63-14122	09-27	NO REPORT NUMBER
N63-14123	09-06	NO REPORT NUMBER
N63-14124	09-06	NO REPORT NUMBER
N63-14125	09-06	NO REPORT NUMBER
N63-14126	09-06	NO REPORT NUMBER
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N63-14132	09-06	NO REPORT NUMBER
N63-14133	09-06	NO REPORT NUMBER
N63-14134	09-06	NO REPORT NUMBER
N63-14135	09-06	NO REPORT NUMBER
N63-14136	09-06	NO REPORT NUMBER
N63-14137	09-06	NO REPORT NUMBER
N63-14138	09-06	NO REPORT NUMBER
N63-14139	09-06	NO REPORT NUMBER
N63-14140	09-06	NO REPORT NUMBER
N63-14141	09-06	NO REPORT NUMBER
N63-14142	09-06	NO REPORT NUMBER
N63-14143	09-06	NO REPORT NUMBER
N63-14144	09-06	NO REPORT NUMBER
N63-14145	09-06	NO REPORT NUMBER
N63-14146	09-06	NO REPORT NUMBER
N63-14147	09-06	NO REPORT NUMBER
N63-14148	09-06	NO REPORT NUMBER
N63-14149	09-06	NO REPORT NUMBER
N63-14150	09-06	NO REPORT NUMBER
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N63-14157	09-06	NO REPORT NUMBER
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N63-14160	09-06	NO REPORT NUMBER
N63-14161	09-06	NO REPORT NUMBER
N63-14162	09-06	NO REPORT NUMBER
N63-14163	09-06	NO REPORT NUMBER
N63-14164	09-06	NO REPORT NUMBER
N63-14165	09-06	NO REPORT NUMBER
N63-14166	09-06	NO REPORT NUMBER
N63-14167	09-06	NO REPORT NUMBER
N63-14168	09-06	NO REPORT NUMBER
N63-14169	09-06	NO REPORT NUMBER
N63-14170	09-06	NO REPORT NUMBER
N63-14171	09-06	NO REPORT NUMBER
N63-14172	09-07	CAL-QM-1626-A-10
N63-14173	09-12	UAG-R133
N63-14174	09-12	AFCRL-63-289
N63-14175	09-02	ARL-63-14
N63-14176	09-33	BALLISTICS RES. REPT.-76
N63-14177	09-16	AMRL-TDR-62-142
N63-14178	09-05	AFCRL-62-890
N63-14179	09-28	GRD RES. NOTES-58
N63-14180	09-12	AFCRL-62-803
N63-14181	09-21	AFCRL-62-899
N63-14182	09-12	AFCRL-62-1024
N63-14183	09-20	AFCRL-62-891
N63-14184	09-20	AFCRL-62-1098
N63-14185	09-04	NO REPORT NUMBER
N63-14186	09-05	AFCRL-62-1111
N63-14187	09-24	AFCRL-62-1112
N63-14188	09-28	EFINS-63-8
N63-14189	09-23	GA-3409
N63-14190	09-11	NWL-1840
N63-14191	09-27	ASRL-TR-1007
N63-14192	09-15	AFCRL-62-1110
N63-14193	09-24	TR62-209C
N63-14194	09-08	TR62-209B
N63-14195	09-24	TR62-2090
N63-14196	09-24	TR62-209L
N63-14197	09-24	TR62-209N
N63-14198	09-08	RADC-TDR-62-521
N63-14199	09-08	AFCRL-63-23
N63-14200	09-11	BM-RI-6192
N63-14201	09-18	BSD-TDR-63-62
N63-14202	09-11	SC-4764/RR/
N63-14203	09-29	NO REPORT NUMBER
N63-14204	09-18	NO REPORT NUMBER
N63-14205	09-23	NASA-TN-D-1662
N63-14206	09-15	GEAP-3914
N63-14207	09-11	NASA-TN-D-1632
N63-14208	09-11	GA-3633
N63-14209	09-25	BSD-TDR-63-60
N63-14210	09-09	NASA-TT-F-155
N63-14211	09-15	TID-18124
N63-14212	09-02	DI-82-0223
N63-14213	09-33	NO REPORT NUMBER
N63-14214	09-13	NO REPORT NUMBER
N63-14215	09-23	NYO-10258
N63-14216	09-25	NO REPORT NUMBER
N63-14217	09-25	AFCRL-62-718
N63-14218	09-19	AFCRL-62-535
N63-14219	09-09	AFCRL-63-2
N63-14220	09-08	AFCRL-62-777
N63-14221	09-26	MRB-2022Q2
N63-14222	09-34	NO REPORT NUMBER
N63-14223	09-21	IRIG-109-62
N63-14224	09-07	NBS-7829
N63-14225	09-18	WAL-TR-320.1/11
N63-14226	09-01	NO REPORT NUMBER
N63-14227	09-33	NOTS-TP-3069
N63-14228	09-20	PIBMRI-1087-62
N63-14229	09-07	NO REPORT NUMBER
N63-14230	09-18	ASD-TRD-62-481
N63-14231	10-28	NO REPORT NUMBER
N63-14232	10-23	AEDC-TDR-63-71
N63-14233	10-23	NO REPORT NUMBER
N63-14234	10-06	NO REPORT NUMBER
N63-14235	10-23	NO REPORT NUMBER
N63-14236	10-18	TDR-169/3240-31/TR-2
N63-14237	10-23	TID-17089/PT. I/
N63-14238	10-08	CAL-VC-1609-P-1
N63-14239	10-20	NADC-MA-6302
N63-14240	10-23	AFCRL-63-225
N63-14241	10-20	AFCRL-63-282
N63-14242	10-23	IS-522
N63-14243	10-26	AERONAUTICAL ENG. REPT.-446N
N63-14244	10-12	AFCRL-63-256
N63-14245	10-18	ASD-TDR-62-1111
N63-14246	10-12	SEL-62-149
N63-14247	10-04	NASA-TM-X-758
N63-14248	10-16	NASA-TT-F-160
N63-14249	10-20	NASA-TN-D-1112
N63-14250	10-33	NASA-TN-D-1574
N63-14251	10-02	NASA-TN-D-1578
N63-14252	10-03	NASA-TN-D-1618
N63-14253	10-29	SAO SPECIAL REPT.-111
N63-14254	10-29	SAO SPECIAL REPT.-113
N63-14255	10-15	BM-RI-6212
N63-14256		ACC. NO. NOT USED
N63-14257	10-07	TP-63
N63-14258	10-11	NO REPORT NUMBER
N63-14259	10-23	NO REPORT NUMBER
N63-14260	10-16	USNRDL-TR-616
N63-14261	10-20	NO REPORT NUMBER
N63-14262	10-10	AEDC-TDR-62-230
N63-14263	10-20	RF-TR-63-3
N63-14264	10-23	NO REPORT NUMBER
N63-14265	10-15	NO REPORT NUMBER
N63-14266	10-18	NO REPORT NUMBER
N63-14267	10-11	NO REPORT NUMBER
N63-14268	10-29	SAO SPECIAL REPT.-112
N63-14269	10-23	MRL-118
N63-14270	10-11	BB-316
N63-14271	10-33	NASA-TN-D-1499
N63-14272	10-23	NASA-TN-D-1523
N63-14273	10-12	NASA-TN-D-1573
N63-14274	10-22	NASA-TN-D-1627
N63-14275	10-23	NO REPORT NUMBER
N63-14276	10-15	NASA-TN-D-1695
N63-14277	10-15	NASA-TN-D-1716
N63-14278	10-11	NASA-TN-D-1795
N63-14279	10-33	NASA-TN-D-1872, REV.
N63-14280	10-23	BMI-1620
N63-14281	10-07	DP-732
N63-14282	10-07	NOLTR-62-166

N63-14283	10-18	DMIC-MEMO-165
N63-14284	10-09	TR-1099
N63-14285	10-23	TID-17089/PT. II/
N63-14286	10-15	Y-1403
N63-14287	10-12	NO REPORT NUMBER
N63-14288	10-28	NO REPORT NUMBER
N63-14289	10-23	NO REPORT NUMBER
N63-14290	10-05	NO REPORT NUMBER
N63-14291	10-29	NO REPORT NUMBER
N63-14292	10-29	JPL-TM-33-99, VOL. 1, PT. B
N63-14293	10-28	NASA-TN-D-1700
N63-14294	10-18	USBM-U-1001
N63-14295	10-17	USCEC-93-201
N63-14296	10-24	NO REPORT NUMBER
N63-14297	10-04	NO REPORT NUMBER
N63-14298	10-19	NO REPORT NUMBER
N63-14299	10-18	ARF-8183-13
N63-14300	10-08	AFCRL-63-291
N63-14301	10-20	ASD-TDR-63-63
N63-14302	10-11	GA-3827
N63-14303	10-26	S-38
N63-14304	10-29	BSD-TDR-62-270
N63-14305	10-14	NO REPORT NUMBER
N63-14306	10-25	ASD-TDR-63-215
N63-14307	10-04	NO REPORT NUMBER
N63-14308	10-23	NW-76323
N63-14309	10-33	NO REPORT NUMBER
N63-14310	10-09	AFCRL-63-5
N63-14311	10-26	EM-1110-345-332
N63-14312	10-11	AASU-185
N63-14313		ACC. NO. NOT USED
N63-14314	10-11	AEDC-TDR-63-82
N63-14315	10-24	NO REPORT NUMBER
N63-14316	10-16	NASA-TT-F-159
N63-14317	10-05	AFCRL-63-200
N63-14318	10-24	NO REPORT NUMBER
N63-14319	10-33	NLR-TN-M.2096
N63-14320	10-15	NLR-TN-M.2098
N63-14321	10-33	NRL-TN-M.2099
N63-14322	10-12	NO REPORT NUMBER
N63-14323	10-12	NO REPORT NUMBER
N63-14324	10-26	NO REPORT NUMBER
N63-14325	10-23	NYO-10259
N63-14326	10-23	NYO-10260
N63-14327	10-09	NO REPORT NUMBER
N63-14328	10-28	EFINS-63-9
N63-14329	10-23	FTD-TT-62-1171/1&2&4
N63-14330	10-20	TR 63-12
N63-14331	10-29	RM-3554-PR
N63-14332	10-25	AFCRL-63-15
N63-14333	10-16	CARI-63-1
N63-14334	10-29	FFM-56
N63-14335	10-33	RAE-TRANS-1022
N63-14336	10-08	RAE-TRANS-1025
N63-14337	10-23	NO REPORT NUMBER
N63-14338	10-11	DSR-8998-1
N63-14339	10-23	AF-101
N63-14340	10-20	MH-MPG-1529-TR-7
N63-14341	10-19	NO REPORT NUMBER
N63-14342	10-23	NAA-SR-7263
N63-14343	10-32	NO REPORT NUMBER
N63-14344	10-27	ER-12289
N63-14345	10-29	ER-12290
N63-14346	10-29	ER-12292
N63-14347	10-29	ER-12297
N63-14348	10-16	ER-12300
N63-14349	10-29	ER-12304
N63-14350	10-10	ER-12305
N63-14351	10-32	FFM-55
N63-14352	10-20	OFL-184
N63-14353	10-04	OFL-193
N63-14354	10-27	UTIA-TN-64
N63-14355	10-30	UTIA-89
N63-14356	10-29	RAE-TRANS-1026
N63-14357	10-07	AFCRL-62-626
N63-14358	10-20	NO REPORT NUMBER
N63-14359	10-25	AFCRL-63-288, VOL. I
N63-14360	10-25	AFCRL-63-288, VOL. II
N63-14361	10-23	AROD-2781-3
N63-14362	10-20	GCA-TR-63-2-A
N63-14363	10-20	GCA-TR-63-4-A
N63-14364	10-16	NASA-TT-F-158
N63-14365	10-07	NOLTR-63-1
N63-14366	10-04	TCREC-62-63, VOL. I
N63-14367	10-04	TCREC-62-63, VOL. II
N63-14368	10-23	NO REPORT NUMBER
N63-14369	10-33	NO REPORT NUMBER
N63-14370	10-27	DFL-185
N63-14371	10-01	NO REPORT NUMBER
N63-14372	10-23	NO REPORT NUMBER
N63-14373	10-07	AID S-63-34
N63-14374	10-23	NO REPORT NUMBER
N63-14375	10-08	NO REPORT NUMBER
N63-14376	10-07	NO REPORT NUMBER
N63-14377	10-20	PIBMRI-1108-62
N63-14378	10-21	RM-3564-PR
N63-14379	10-11	USCEC-83-101
N63-14380	10-11	NO REPORT NUMBER
N63-14381	10-11	NO REPORT NUMBER
N63-14382	10-02	NO REPORT NUMBER
N63-14383	10-02	NO REPORT NUMBER
N63-14384	10-15	NO REPORT NUMBER
N63-14385	10-11	NO REPORT NUMBER
N63-14386	10-11	NO REPORT NUMBER
N63-14387	10-11	NO REPORT NUMBER
N63-14388	10-24	NO REPORT NUMBER
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N63-14393	10-11	NO REPORT NUMBER
N63-14394	10-24	NO REPORT NUMBER
N63-14395	10-23	NO REPORT NUMBER
N63-14396	10-23	NO REPORT NUMBER
N63-14397	10-29	NASA-TM-X-824
N63-14398	10-23	DRL-A-202
N63-14399	10-13	AFCRL-63-247
N63-14400	10-10	UTIA-REV-22
N63-14401	10-15	AASU-208
N63-14402	10-18	NASA-TN-D-1531
N63-14403	10-07	NASA-TN-D-1581
N63-14404	10-29	NASA-TN-D-1676
N63-14405	10-18	NASA-TN-D-1706
N63-14406	10-29	NASA-TN-D-1871
N63-14407	10-34	NOLTR-62-206
N63-14408	10-07	TIL/T-5129
N63-14409	10-02	DVL-243
N63-14410	10-02	MIT FLUID DYN. RES. LAB.-63-1
N63-14411	10-32	SAD SPECIAL REPT.-116
N63-14412	10-25	AEC-TR-5575
N63-14413	10-27	JPL-TR-32-385
N63-14414	10-01	NO REPORT NUMBER
N63-14415	10-23	NO REPORT NUMBER
N63-14416	10-25	NO REPORT NUMBER
N63-14417	10-23	NO REPORT NUMBER
N63-14418	10-09	NO REPORT NUMBER
N63-14419	10-09	NO REPORT NUMBER
N63-14420	10-23	NO REPORT NUMBER
N63-14421	10-25	NO REPORT NUMBER
N63-14422	10-25	NO REPORT NUMBER
N63-14423	10-15	DVL-102
N63-14424	10-20	NRC-319
N63-14425	10-20	NRC-321
N63-14426	10-28	NASA-TN-D-1684
N63-14427	10-02	NASA-TN-D-1622
N63-14428	10-32	NASA-TN-D-1722
N63-14429	10-04	NASA-TN-D-1826
N63-14430	10-23	NASA-TN-D-1873
N63-14431	10-16	NASA-TT-F-161
N63-14432	10-16	NASA-TT-F-162
N63-14433	10-20	NRC-313
N63-14434	10-16	NO REPORT NUMBER
N63-14435	10-15	AFCRL-63-407
N63-14436	10-27	NO REPORT NUMBER
N63-14437	10-03	NO REPORT NUMBER
N63-14438	10-04	OFL-188
N63-14439	10-03	OFL-189
N63-14440	10-03	OFL-190
N63-14441	10-23	NRL-MEMO-1361, PT. 2
N63-14442	10-03	OFL-191
N63-14443	10-15	NO REPORT NUMBER
N63-14444	10-22	NASA-TN-D-1653
N63-14445	10-22	NO REPORT NUMBER
N63-14446	10-22	NO REPORT NUMBER
N63-14447	10-12	AFCRL-63-52
N63-14448	10-15	AFCRL-63-409
N63-14449	10-11	BSD-TDR-62-354
N63-14450	10-06	JPL-TR-32-350
N63-14451	10-11	TIL/T-5323
N63-14452	10-23	AROD-1579-11
N63-14453	10-20	NRC-324
N63-14454	10-33	NRC-326
N63-14455	10-20	NRC-327
N63-14456	10-20	NRC-332
N63-14457	10-20	NRC-342
N63-14458	10-20	NRC-240
N63-14459	10-20	NRC-278
N63-14460	10-20	NRC-292
N63-14461	10-20	NRC-309
N63-14462	10-24	NRC-310

N63-14463	10-20	MRC-312
N63-14464	10-33	NO REPORT NUMBER
N63-14465	10-11	JPL-TR-32-387
N63-14466	10-08	JPL-TR-32-377
N63-14467	10-20	JPL-TR-32-381
N63-14468	10-33	DOMIIT-1-22
N63-14469	10-05	NO REPORT NUMBER
N63-14470	10-07	PA-TM-1060
N63-14471	10-06	NO REPORT NUMBER
N63-14472	10-20	NO REPORT NUMBER
N63-14473	10-20	MRC-300
N63-14474	10-11	MRC-299
N63-14475	10-20	MRC-293
N63-14476	10-25	MRC-294
N63-14477	10-20	MRC-297
N63-14478	10-20	MRC-303
N63-14479	10-20	MRC-305
N63-14480	10-20	MRC-334
N63-14481	10-11	AEDC-TDR-63-24
N63-14482	10-25	NO REPORT NUMBER
N63-14483	10-27	JPL-TR-32-375
N63-14484	10-21	ERDA-8
N63-14485	10-07	EXP-223/3
N63-14486	10-18	NO REPORT NUMBER
N63-14487	10-26	NOLTR-62-159
N63-14488	10-26	NO REPORT NUMBER
N63-14489	10-14	AMRL-TDR-62-148
N63-14490	10-33	NO REPORT NUMBER
N63-14491	10-05	NO REPORT NUMBER
N63-14492	10-07	NOLTR-62-65
N63-14493	10-23	ORNL-3266
N63-14494	10-08	RADC-TDR-63-123
N63-14495	10-20	LAMS-2845
N63-14496	10-19	FPL-1890
N63-14497	10-16	UR-622
N63-14498	10-33	TID-17887
N63-14499	10-23	AFCRL-63-18
N63-14500	10-23	IER SER. 131, ISSUE 20
N63-14501	10-09	PIBMRI-1119-63
N63-14502	10-23	NO REPORT NUMBER
N63-14503	10-20	DVL-239
N63-14504	10-25	RADC-TDR-63-141
N63-14505	10-20	MRC-301
N63-14506	10-20	MRC-306
N63-14507	10-20	MRC-314
N63-14508	10-20	MRC-315
N63-14509	10-20	MRC-316
N63-14510	10-20	MRC-317
N63-14511	10-33	MRC-318
N63-14512	10-20	MRC-323
N63-14513	10-20	MRC-328
N63-14514	10-20	MRC-330
N63-14515	10-20	MRC-331
N63-14516	10-07	AOMC-RR-TR-62-3
N63-14517	10-27	NO REPORT NUMBER
N63-14518	10-19	NO REPORT NUMBER
N63-14519	10-23	NO REPORT NUMBER
N63-14520	10-13	CU-23-62-ONR-266/20/-CE
N63-14521	10-23	SCDC-2580
N63-14522	10-06	ASD-TDR-62-837
N63-14523	10-21	AFCRL-62-1114
N63-14524	10-21	NO REPORT NUMBER
N63-14525	10-12	AD-216319
N63-14526	10-11	NO REPORT NUMBER
N63-14527	10-04	NASA-MEMO-4-2-59L
N63-14528		ACC. NO. NOT USED
N63-14529	10-07	LA-2844
N63-14530	10-24	LAMS-2874
N63-14531	10-03	DFL-159
N63-14532	10-23	TCREC-TR-62-90
N63-14533	10-09	AFCRL-63-21
N63-14534	10-24	D1-82-0147
N63-14535	10-26	ARL-62-379
N63-14536	10-23	AFCRL-63-27
N63-14537	10-28	NO REPORT NUMBER
N63-14538	10-06	NGTE-M-59
N63-14539	10-01	TDR-930/2701-01/TN-1/IIPT 1-45
N63-14540	10-12	AFCRL-63-404, PT. I&II
N63-14541	10-12	NO REPORT NUMBER
N63-14542	10-12	AFCRL-63-404
N63-14543	10-12	NO REPORT NUMBER
N63-14544	10-12	NO REPORT NUMBER
N63-14545	10-25	TRG-134-QRT-3
N63-14546	10-32	SAO SPECIAL REPT.-114
N63-14547	10-23	NO REPORT NUMBER
N63-14548	10-33	NO REPORT NUMBER
N63-14549	10-33	NO REPORT NUMBER
N63-14550	10-09	NO REPORT NUMBER
N63-14551	10-28	AFCRL-63-205
N63-14552	10-09	TIL/T-5326
N63-14553	10-09	AFCRL-63-13
N63-14554	10-09	R-143
N63-14555	10-06	R-145
N63-14556	10-23	SLAC-12
N63-14557	10-23	SLAC-14
N63-14558	10-28	NO REPORT NUMBER
N63-14559	10-09	TR-1108
N63-14560		ACC. NO. NOT USED
N63-14561	10-13	NAA-SR-7770
N63-14562	10-11	ANL-6625
N63-14563	10-11	ANL-6674
N63-14564	10-23	ANL-6692
N63-14565	10-07	SR1-16-P
N63-14566	10-09	REIC-26
N63-14567	10-23	ORNL-3407
N63-14568	10-23	LA-2390, SUPPL.
N63-14569	10-10	LAMS-2875
N63-14570	10-16	USNRDL-TR-622
N63-14571	10-23	AVCO-EVERETT RES. REPT.-147
N63-14572	10-13	NO REPORT NUMBER
N63-14573	10-13	IDO-28578
N63-14574	10-14	HSR-RR-62/10-MK-X
N63-14575	10-21	AWS-TR-166
N63-14576	10-20	NOLTR-63-31
N63-14577	10-11	NAVORD-6877
N63-14578	10-19	DFL-192
N63-14579	10-08	AFCRL-62-700
N63-14580	10-15	BRL-MEMO-1448
N63-14581	10-11	NO REPORT NUMBER
N63-14582	10-01	NO REPORT NUMBER
N63-14583	10-20	MRC-355
N63-14584	10-20	MRC-365
N63-14585	10-07	JPL-TR-32-393
N63-14586	10-21	NASA-TN-D-1713
N63-14587	10-29	NASA-TN-D-1767
N63-14588	10-02	NASA-TN-D-1769
N63-14589	10-02	NASA-TN-D-1779
N63-14590	10-18	AR1-62-397
N63-14591	10-08	JPL-SPS-37-20, VOL. III
N63-14592	10-20	AFCRL-62-1132
N63-14593	10-20	MRC-363
N63-14594	10-11	MRC-373
N63-14595	10-11	MRC-374
N63-14596	10-24	MRC-360
N63-14597	10-18	UCRL-5705/SUPPL. 2/
N63-14598	10-07	UCRL-7204
N63-14599	10-15	UCRL-7223
N63-14600	10-24	UCRL-10607
N63-14601	10-07	AFCRL-62-731
N63-14602	10-33	ASD-TR-61-667, VOL. III
N63-14603	10-06	SSD-TDR-63-24
N63-14604	10-15	RADC-TDR-62-446
N63-14605	10-20	AFCRL-62-1108
N63-14606	10-12	AFCRL-63-201
N63-14607	10-02	AEDC-TDR-63-58
N63-14608	10-24	GASL-TR-317
N63-14609	10-20	LA-2367
N63-14610		ACC. NO. NOT USED
N63-14611	10-31	AROD-N-62.4
N63-14612	10-24	NO REPORT NUMBER
N63-14613	10-04	NO REPORT NUMBER
N63-14614	10-11	DK-532526
N63-14615	10-20	AROD-1517-51
N63-14616	10-07	AROD-2336-2
N63-14617	10-26	NO REPORT NUMBER
N63-14618	10-04	NO REPORT NUMBER
N63-14619	10-17	RTD-TDR-63-1023
N63-14620	10-12	PNE-111F
N63-14621	10-07	BBC-115
N63-14622		ACC. NO. NOT USED
N63-14623	10-20	CAL-AF-1285-A-9
N63-14624	10-07	ARL-63-13
N63-14625	10-23	MLM-1144
N63-14626	10-30	NASA-TN-D-1673
N63-14627	10-15	NOLTR-62-218
N63-14628	10-23	NO REPORT NUMBER
N63-14629	10-20	LMSC-6-90-62-125
N63-14630	10-33	TID-17682
N63-14631	10-07	UCRL-10634
N63-14632	10-07	NO REPORT NUMBER
N63-14633	10-16	NO REPORT NUMBER
N63-14634	10-23	NO REPORT NUMBER
N63-14635	10-16	NO REPORT NUMBER
N63-14636	10-07	NO REPORT NUMBER
N63-14637	10-11	NO REPORT NUMBER
N63-14638	10-23	PST-501
N63-14639	10-06	TB-63-3
N63-14640	10-33	TIL/T-5032
N63-14641	10-08	DVL-256
N63-14642	10-20	DVL-260

N63-14643	10-33	IR-62-17
N63-14644	10-15	NBL-191
N63-14645	10-25	RR-TR-63-1
N63-14646	10-07	AFCRL-63-75
N63-14647	10-26	PA-TM-1101
N63-14648	10-14	AMRL-TDR-62-138
N63-14649	10-18	ASD-TDR-62-1075
N63-14650	10-11	MD-63-1
N63-14651	10-20	GEMP-192
N63-14652	10-17	RIA-63-313
N63-14653	10-17	RIA-63-88
N63-14654	10-21	AFCRL-63-241
N63-14655		ACC. NO. NOT USED
N63-14656	10-20	DI-82-0148
N63-14657	10-26	NO REPORT NUMBER
N63-14658	10-08	NO REPORT NUMBER
N63-14659	10-25	AFCRL-62-173
N63-14660	10-09	AF-102
N63-14661	10-26	NAA-SR-7098
N63-14662	10-03	DVL-197
N63-14663	10-23	ORNL-3288
N63-14664	10-06	NAA-SR-8097
N63-14665	10-16	LF-6
N63-14666	10-23	JPL-TR-32-165
N63-14667	10-23	NO REPORT NUMBER
N63-14668	10-29	NO REPORT NUMBER
N63-14669	10-05	NO REPORT NUMBER
N63-14670	10-18	NO REPORT NUMBER
N63-14671	10-18	NO REPORT NUMBER
N63-14672	10-18	NO REPORT NUMBER
N63-14673	10-18	NO REPORT NUMBER
N63-14674	10-18	NO REPORT NUMBER
N63-14675	10-33	NO REPORT NUMBER
N63-14676	10-34	AFFTC-TR-60-43, VOL. III
N63-14677	10-29	JPL-TR-32-347
N63-14678	10-29	NO REPORT NUMBER
N63-14679	10-29	NO REPORT NUMBER
N63-14680	10-02	NASA-MEMO-2-17-59E
N63-14681	10-02	NASA-TM-X-652
N63-14682	10-02	NASA-TM-X-665
N63-14683	10-04	NO REPORT NUMBER
N63-14684	10-04	NO REPORT NUMBER
N63-14685	10-04	NO REPORT NUMBER
N63-14686	10-04	NO REPORT NUMBER
N63-14687	10-03	NO REPORT NUMBER
N63-14688	10-04	NO REPORT NUMBER
N63-14689	10-03	NO REPORT NUMBER
N63-14690	10-04	NO REPORT NUMBER
N63-14691	10-04	NO REPORT NUMBER
N63-14692	10-04	NO REPORT NUMBER
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N63-14696	10-04	NO REPORT NUMBER
N63-14697	10-04	NO REPORT NUMBER
N63-14698	10-04	NO REPORT NUMBER
N63-14699	10-04	NO REPORT NUMBER
N63-14700	10-04	NO REPORT NUMBER
N63-14701	10-04	NO REPORT NUMBER
N63-14702	10-04	NO REPORT NUMBER
N63-14703	10-04	NO REPORT NUMBER
N63-14704	10-04	NO REPORT NUMBER
N63-14705	10-33	NO REPORT NUMBER
N63-14706	10-33	NO REPORT NUMBER
N63-14707	10-33	NO REPORT NUMBER
N63-14708	10-33	NO REPORT NUMBER
N63-14709	10-04	NO REPORT NUMBER
N63-14710	10-19	KAPL-2216
N63-14711	10-20	LA-2414
N63-14712	10-16	USNRDL-TR-625
N63-14713	10-29	TIS-R62-SD-84
N63-14714	10-28	NASA-TN-D-1687
N63-14715	10-22	NO REPORT NUMBER
N63-14716	10-33	ARL-63-4
N63-14717	11-29	JPL-TR-32-77
N63-14718	11-26	RTD-TDR-63-1024
N63-14719	11-18	BMI-1611
N63-14720	11-07	NO REPORT NUMBER
N63-14721	11-20	NWL-1833
N63-14722	11-10	AEDC-TDR-63-88
N63-14723	11-06	AGN-TM-400
N63-14724	11-06	NAA-SR-7797
N63-14725	11-33	TIL/T-4957
N63-14726	11-13	TIL/T-5387
N63-14727	11-05	NO REPORT NUMBER
N63-14728	11-05	NO REPORT NUMBER
N63-14729	11-05	NO REPORT NUMBER
N63-14730	11-05	NO REPORT NUMBER
N63-14731	11-05	NO REPORT NUMBER
N63-14732	11-15	NRL-5778
N63-14733	11-16	NRL-5800
N63-14734	11-08	AFCRL-62-174
N63-14735	11-17	FGT-1880
N63-14736	11-05	NO REPORT NUMBER
N63-14737	11-05	NO REPORT NUMBER
N63-14738	11-34	NO REPORT NUMBER
N63-14739	11-29	SB-61-67
N63-14740	11-26	U-2059
N63-14741	11-07	SSD-TDR-62-127, VOL. III
N63-14742	11-33	R-63-4
N63-14743	11-17	PF-63-3
N63-14744	11-06	NO REPORT NUMBER
N63-14745	11-19	BMRI-6220
N63-14746	11-06	NO REPORT NUMBER
N63-14747	11-33	DTMB-1614
N63-14748	11-33	NO REPORT NUMBER
N63-14749	11-33	NO REPORT NUMBER
N63-14750	11-23	NO REPORT NUMBER
N63-14751	11-23	NO REPORT NUMBER
N63-14752	11-24	SC-4776/RR/
N63-14753	11-18	NO REPORT NUMBER
N63-14754	11-22	NO REPORT NUMBER
N63-14755	11-02	NASA-MEMO-3-5-59A
N63-14756	11-11	NASA-MEMO-3-4-59E
N63-14757	11-02	NASA-MEMO-3-2-59L
N63-14758	11-02	NASA-MEMO-12-5-58L
N63-14759	11-27	NACA-RM-E52C13
N63-14760	11-27	NACA-RM-E54B18
N63-14761	11-27	NACA-RM-E56C09
N63-14762	11-02	NACA-RM-E57A07
N63-14763	11-33	NACA-RM-L57C11
N63-14764	11-21	NO REPORT NUMBER
N63-14765	11-13	NASA-TM-X-263
N63-14766	11-02	NASA-TM-X-437
N63-14767	11-04	NASA-TM-X-514
N63-14768	11-25	ASD-TDR-62-1026
N63-14769	11-15	AEDC-TDR-63-47
N63-14770	11-08	RAL-TM-63-1
N63-14771	11-23	AFCRL-63-430
N63-14772	11-33	NASA-TM-X-355
N63-14773	11-15	AFSWC-TDR-61-76
N63-14774	11-24	PIBMRI-1025-62
N63-14775	11-24	ASD-TDR-62-459
N63-14776	11-11	SUFFIELD-TN-92
N63-14777	11-23	AFCRL-62-553
N63-14778	11-11	TR-1102
N63-14779	11-11	TR-1114
N63-14780	11-15	AEDC-TDR-63-46
N63-14781	11-02	NASA-TR-R-115
N63-14782	11-29	NO REPORT NUMBER
N63-14783	11-12	NRL-5833
N63-14784	11-09	NRL-5848
N63-14785	11-15	NRL-5850
N63-14786	11-28	NRL-5869
N63-14787	11-10	NRL-5887
N63-14788	11-04	NAVTRADEVCEN-1146-1
N63-14789	11-16	NO REPORT NUMBER
N63-14790	11-16	SAM-TDR-62-76
N63-14791	11-16	SAM-TDR-62-88
N63-14792	11-17	Y-1414
N63-14793	11-23	Y-1415
N63-14794	11-26	TIL/T-5386
N63-14795	11-20	NO REPORT NUMBER
N63-14796	11-20	NO REPORT NUMBER
N63-14797	11-33	NO REPORT NUMBER
N63-14798	11-08	ERB-626
N63-14799	11-23	LMF-62/109
N63-14800	11-13	ASD-TR-61-445, PT. II
N63-14801	11-01	ORNL-3191
N63-14802	11-20	R-141
N63-14803	11-22	NO REPORT NUMBER
N63-14804	11-22	NO REPORT NUMBER
N63-14805	11-24	NASA-TN-D-1659
N63-14806	11-29	NASA-TN-D-1770
N63-14807	11-23	AEROCHEM-TP-45
N63-14808	11-20	NO REPORT NUMBER
N63-14809	11-23	NYO-10257
N63-14810	11-19	NBS-TN-137
N63-14811	11-10	NASA-TN-D-1631
N63-14812	11-23	ORNL-3254
N63-14813	11-07	ORNL-3265
N63-14814	11-07	PA-TM-1113
N63-14815	11-13	MTI-62TR41
N63-14816	11-17	MTI-63TR8
N63-14817	11-12	RRC-A84
N63-14818	11-12	RRC-881
N63-14819	11-23	AFCRL-63-80
N63-14820	11-22	AFCRL-63-83
N63-14821	11-02	NO REPORT NUMBER
N63-14822	11-02	NO REPORT NUMBER

N63-14823	11-16	IER SER. 60, ISSUE 476
N63-14824	11-16	USNRDL-TR-620
N63-14825	11-21	NO REPORT NUMBER
N63-14826	11-20	AROD-2776-10
N63-14827	11-02	NOLTR-62-11
N63-14828	11-18	SB-62-68
N63-14829	11-23	U-106-48
N63-14830	11-02	NO REPORT NUMBER
N63-14831	11-25	ARF-A1216-7
N63-14832	11-02	TDR-169/3230-12/TN-6
N63-14833	11-33	R-62-36
N63-14834	11-33	UTIA-87
N63-14835	11-18	AFCRL-63-69
N63-14836	11-18	NO REPORT NUMBER
N63-14837	11-18	NO REPORT NUMBER
N63-14838	11-19	NO REPORT NUMBER
N63-14839	11-18	AFCRL-63-3
N63-14840	11-26	DASA-1336
N63-14841	11-06	TB-63-2
N63-14842	11-23	NBS-TN-172
N63-14843	11-23	S-510
N63-14844	11-02	UTIA-TN-65
N63-14845	11-15	NBS-MONOGRAPH-35
N63-14846	11-23	NBS-MONOGRAPH-47
N63-14847	11-24	FTD-TT-62-1092/1&2
N63-14848	11-18	ASD-TDR-62-431
N63-14849	11-16	RADC-TDR-62-604
N63-14850	11-08	PIBMRI-1048-62
N63-14851	11-09	IM-1062
N63-14852	11-26	RAI-314
N63-14853	11-08	NBS-TN-18-15
N63-14854	11-17	NO REPORT NUMBER
N63-14855	11-05	NO REPORT NUMBER
N63-14856	11-29	ACIC-TR-98
N63-14857	11-13	AEDC-TDR-63-72
N63-14858	11-08	AFCRL-63-4
N63-14859	11-12	TM-18
N63-14860	11-07	ORD-600
N63-14861	11-29	NO REPORT NUMBER
N63-14862	11-23	R-410-PR
N63-14863	11-20	HW-75806
N63-14864	11-24	NBS-TN-164
N63-14865	11-20	RM-3551-PR
N63-14866	11-20	UTIA-88
N63-14867	11-20	ASD-TDR-62-686
N63-14868	11-25	RM-3560-PR
N63-14869	11-25	AFCRL-63-62
N63-14870	11-11	RM-3497-ARPA
N63-14871	11-02	NASA-TR-R-100
N63-14872	11-02	NASA-TR-R-101
N63-14873	11-24	NASA-TR-R-121
N63-14874	11-11	NO REPORT NUMBER
N63-14875	11-07	NO REPORT NUMBER
N63-14876		ACC. NO. NOT USED
N63-14877	11-19	WADD-TR-61-91, PT. II
N63-14878	11-30	APGC-TDR-63-22
N63-14879	11-07	WADD-TR-60-782, PT. VII
N63-14880	11-07	NO REPORT NUMBER
N63-14881	11-23	JPL-TR-32-427
N63-14882	11-18	ASD-TR-7-532A/V/
N63-14883	11-18	ASD-TR-7-532A/VI/
N63-14884	11-18	ASD-TR-7-532A/VII/
N63-14885	11-18	ASD-TR-7-532A/VIII/
N63-14886	11-18	ASD-TR-7-532A/1X/
N63-14887	11-16	USNRDL-TR-627
N63-14888	11-29	NO REPORT NUMBER
N63-14889	11-18	ASD-TDR-62-830
N63-14890	11-01	BNL-759/S-62/
N63-14891	11-19	C-646943
N63-14892	11-17	LA-2751
N63-14893	11-07	ASD-TDR-63-212
N63-14894	11-23	AVCO-EVERETT RES. REPT.-149
N63-14895	11-02	NO REPORT NUMBER
N63-14896	11-29	AMRL-TDR-62-129
N63-14897	11-11	NO REPORT NUMBER
N63-14898	11-20	SCR-501
N63-14899	11-07	NO REPORT NUMBER
N63-14900	11-15	N-106-210
N63-14901	11-05	NO REPORT NUMBER
N63-14902	11-29	JPL-SPS-37-19, VOL. VI
N63-14903		ACC. NO. NOT USED
N63-14904	11-26	WSS/CI PAPER-62-24
N63-14905	11-09	FTD-TT-61-149/1&2
N63-14906	11-09	NO REPORT NUMBER
N63-14907	11-09	NO REPORT NUMBER
N63-14908	11-09	NO REPORT NUMBER
N63-14909	11-09	NO REPORT NUMBER
N63-14910	11-09	NO REPORT NUMBER
N63-14911	11-09	NO REPORT NUMBER
N63-14912	11-09	NO REPORT NUMBER
N63-14913	11-09	NO REPORT NUMBER
N63-14914	11-21	NO REPORT NUMBER
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N63-14948	11-15	NO REPORT NUMBER
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N63-14953	11-08	CP-63-663
N63-14954	11-20	AFOSR-4490
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N63-14958	11-20	PMR-TM-63-3
N63-14959	11-11	NAA-SR-8171
N63-14960	11-02	ASRMDD-TM-62-32
N63-14961	11-01	IS-500
N63-14962	11-20	LAMS-2826
N63-14963	11-17	NAA-SR-7973
N63-14964	11-03	MIT-TR-397
N63-14965	11-20	MIT-TR-391
N63-14966	11-11	AAE-62-2
N63-14967	11-08	NBS-TN-167
N63-14968	11-12	NO REPORT NUMBER
N63-14969	11-34	ARL-TDR-63-9
N63-14970	11-15	NAA-SR-7752
N63-14971	11-27	ANL-6705
N63-14972	11-02	NASA-TR-R-146
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N63-14981	11-13	BMRI-5707
N63-14982	11-20	SB-62-50
N63-14983	11-34	NRL-5920
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N63-14994	11-25	NO REPORT NUMBER
N63-14995	11-08	NRL-5717
N63-14996	11-09	AFCRL-63-61
N63-14997	11-24	MATT-151
N63-14998	11-24	MATT-161
N63-14999	11-24	MATT-175
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N63-15028 11-24 ..... MATT-165
N63-15029 11-09 ..... NDL-Q3
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N63-15038 11-23 ..... RADC-TDR-63-15
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N63-15041 11-16 ..... NO REPORT NUMBER
N63-15042 11-21 ..... NO REPORT NUMBER
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N63-15044 11-19 ..... WADD-TR-61-72, VOL. VI
N63-15045 11-23 ..... AFCRL-63-16
N63-15046 11-04 ..... NA-62H-397
N63-15047 11-20 ..... ORNL-3423
N63-15048 11-08 ..... NO REPORT NUMBER
N63-15049 11-20 ..... CETIS-58
N63-15050 11-04 ..... NASA-TN-D-1634
N63-15051 11-13 ..... NASA-TN-D-1635
N63-15052 11-29 ..... NASA-TN-D-1655
N63-15053 11-15 ..... NASA-TN-D-1714
N63-15054 11-18 ..... DA-G36
N63-15055 11-32 ..... NASA-TN-D-1747
N63-15056 11-22 ..... NASA-TN-D-1777
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N63-15060 11-19 ..... NO REPORT NUMBER
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N63-15062 11-08 ..... RADC-TDR-63-84
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N63-15065 11-18 ..... ASD-TR-61-436, PT. 1
N63-15066 11-09 ..... NO REPORT NUMBER
N63-15067 11-25 ..... AFCRL-63-1
N63-15068 11-16 ..... USNRDL-TR-628
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N63-15070 11-25 ..... NO REPORT NUMBER
N63-15071 11-04 ..... ERDA-9
N63-15072 11-26 ..... OVL-226
N63-15073 11-18 ..... WAL-TR-405/2
N63-15074 11-30 ..... AFESD-TDR-62-117
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N63-15105 11-24 ..... AFCRL-63-17
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N63-15162 11-25 ..... AFCRL-62-917/II/
N63-15163 11-25 ..... AFCRL-62-917/III/
N63-15164 11-25 ..... AFCRL-62-917/IV/
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N63-15175 11-08 ..... PIBMRI-1076-62
N63-15176 11-11 .. AERODYNAMICS RES. REPT.-189
N63-15177 11-17 ..... ASD-TR-7-678/III/
N63-15178 11-21 HAWAII INST. GEOPHYS. REPT.-27
N63-15179 11-18 ..... ARF-2101-12
N63-15180 11-14 ..... AMRL-TDR-62-150
N63-15181 11-26 ..... CARDE-TN-1459/62
N63-15182 11-11 ..... FTD-TT-62-333/16264

N63-15183	11-02	R63SD13
N63-15184	11-10	NO REPORT NUMBER
N63-15185	11-23	ANL-6679
N63-15186	11-25	NO REPORT NUMBER
N63-15187	11-06	NO REPORT NUMBER
N63-15188	11-06	ASD-TDR-62-522, APPEND.
N63-15189	11-08	NO REPORT NUMBER
N63-15190	11-20	PIBMRI-1137-63
N63-15191	11-18	NO REPORT NUMBER
N63-15192	11-26	DVL-212
N63-15193	11-11	DVL-240
N63-15194	11-24	R63SD27
N63-15195	11-08	RM-3478
N63-15196	11-15	APGC-TDR-62-14
N63-15197	11-17	IDO-16844
N63-15198		ACC. NO. NOT USED
N63-15199	11-18	WAL-TR-372/32-5, T-3
N63-15200		ACC. NO. NOT USED
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N63-15202	11-16	SAM-TDR-63-4
N63-15203	11-07	CU-7470
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N63-15211	11-32	NO REPORT NUMBER
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N63-15213	11-26	EXP-328
N63-15214	11-33	NO REPORT NUMBER
N63-15215	11-18	NO REPORT NUMBER
N63-15216	11-11	ERR-AN-244
N63-15217	11-05	AFCRL-63-224
N63-15218	11-11	ANL-6667
N63-15219	11-23	LA-2834
N63-15220	11-20	LAMS-2873
N63-15221	11-20	PSR-13/1
N63-15222	11-10	IDO-28597
N63-15223	11-29	AFCRL-63-406
N63-15224	11-23	SAM-TDR-63-18
N63-15225	11-20	ARL-63-19
N63-15226	11-07	NO REPORT NUMBER
N63-15227	11-04	ARL-62-360, PT. 1
N63-15228	11-11	DFL-202
N63-15229	11-26	UCRL-10614
N63-15230	11-11	BN-313
N63-15231	11-33	TTRI-54
N63-15232	11-33	TTRI-55
N63-15233	11-34	TTRI-57
N63-15234	11-11	NO REPORT NUMBER
N63-15235	11-03	NASA-TN-D-1776
N63-15236	11-29	NASA-TN-D-1780
N63-15237	11-06	NASA-TT-F-78
N63-15238	11-23	NASA-TT-F-152
N63-15239	11-33	NO REPORT NUMBER
N63-15240	11-18	NO REPORT NUMBER
N63-15241	11-14	NASA-TN-D-1782
N63-15242	11-21	SAD-79
N63-15243	11-32	JPL-TR-32-325/REV./
N63-15244	11-32	JPL-TR-32-384/REV./
N63-15245	12-20	R-374-PR
N63-15246	12-19	NO REPORT NUMBER
N63-15247	12-33	GALCIT-SM-62-54
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N63-15254	12-08	RM-3561-PR
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N63-15268	12-24	NO REPORT NUMBER
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N63-15278	12-20	JPL-TR-32-21
N63-15279	12-18	FA-R-1623
N63-15280	12-07	NO REPORT NUMBER
N63-15281	12-29	JPL-TR-32-131
N63-15282	12-15	AFCRL-63-234
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N63-15303	12-13	NASA-TN-D-1520
N63-15304	12-29	NASA-TN-D-1623
N63-15305	12-30	NASA-TN-D-1624
N63-15306	12-29	NASA-TN-D-1775
N63-15307	12-02	NASA-TN-D-1786
N63-15308	12-02	NASA-TN-D-1789
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N63-15311	12-32	NO REPORT NUMBER
N63-15312	12-04	NO REPORT NUMBER
N63-15313	12-19	WAL-TR-832/1-5
N63-15314	12-28	NO REPORT NUMBER
N63-15315	12-07	AFCRL-62-860
N63-15316	12-28	NO REPORT NUMBER
N63-15317	12-20	JPL-TR-32-394
N63-15318	12-22	NO REPORT NUMBER
N63-15319	12-11	UCRL-10640
N63-15320	12-29	AMRL-TDR-62-124
N63-15321	12-29	ARF-A2G0-4
N63-15322	12-29	NASA-TN-D-1652
N63-15323	12-11	NASA-TN-D-1894
N63-15324	12-08	TR-EE-63-2
N63-15325	12-33	ASD-TDR-63-221
N63-15326	12-11	NO REPORT NUMBER
N63-15327	12-20	RADC-TDR-63-87
N63-15328	12-20	NAVTRADEVCEN-838-2
N63-15329	12-24	NO REPORT NUMBER
N63-15330	12-34	FRITZ ENG. LAB.-205H.6
N63-15331	12-24	NO REPORT NUMBER
N63-15332	12-33	FRITZ ENG. LAB.-297.3
N63-15333	12-33	ASD-TR-61-725
N63-15334	12-11	NO REPORT NUMBER
N63-15335	12-22	ASD-TR-61-114, PT. II
N63-15336	12-25	RADC-TDR-63-88
N63-15337	12-11	NO REPORT NUMBER
N63-15338	12-11	NO REPORT NUMBER
N63-15339	12-10	TM-62-207
N63-15340	12-20	AFCRL-62-31
N63-15341	12-13	NO REPORT NUMBER
N63-15342	12-01	NO REPORT NUMBER
N63-15343	12-11	TRG-156-SR-2
N63-15344	12-11	NO REPORT NUMBER
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N63-15346	12-21	NASA-TN-D-1641
N63-15347	12-30	NASA-TN-D-1643
N63-15348	12-07	NO REPORT NUMBER
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N63-15350	12-01	NO REPORT NUMBER
N63-15351	12-34	NASA-TN-D-1525
N63-15352	12-27	WAL-TR-766.41/3
N63-15353	12-04	AMRL-TDR-63-11
N63-15354	12-07	NO REPORT NUMBER
N63-15355	12-16	AMRL-TDR-63-16
N63-15356	12-16	AMRL-TDR-62-139
N63-15357	12-01	NASA-SP-29
N63-15358	12-28	NO REPORT NUMBER
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N63-15360	12-28	NO REPORT NUMBER
N63-15361	12-15	AFCRL-63-254
N63-15362	12-19	RDR-1266-7

N63-15363	12-20	AFCRL-63-28
N63-15364	12-20	AFCRL-63-89
N63-15365	12-18	HW-76952
N63-15366	12-18	NRL-5776
N63-15367	12-10	AMRL-TDR-63-17
N63-15368	12-08	CSIR-T-26
N63-15369	12-26	BBE63-002
N63-15370	12-01	BRL-1192
N63-15371	12-07	CCL-138
N63-15372	12-19	ASD-TDR-62-731
N63-15373	12-20	WAPD-TM-365
N63-15374	12-15	DP-792
N63-15375	12-23	ANL-6685
N63-15376	12-10	AT-7
N63-15377	12-27	NO REPORT NUMBER
N63-15378	12-18	BM-RI-6224
N63-15379	12-24	AVCO-EVERETT RES. REPT.-148
N63-15380	12-18	NO REPORT NUMBER
N63-15381	12-23	PNE-114F
N63-15382	12-14	NO REPORT NUMBER
N63-15383	12-18	WAL-TR-111.2/20-1
N63-15384	12-24	LNF-63/6
N63-15385	12-09	RAL-TM-63-5
N63-15386	12-20	NO REPORT NUMBER
N63-15387	12-20	NO REPORT NUMBER
N63-15388	12-11	ER-5214
N63-15389	12-03	NASA-TN-D-1640
N63-15390	12-34	NSL-63-53
N63-15391	12-23	NO REPORT NUMBER
N63-15392	12-11	SCTM-71-63/24/
N63-15393	12-34	NASA-TN-D-1918
N63-15394	12-12	AFCRL-63-429
N63-15395	12-10	NO REPORT NUMBER
N63-15396	12-10	NO REPORT NUMBER
N63-15397	12-18	NO REPORT NUMBER
N63-15398	12-18	BM-RI-6228
N63-15399	12-22	BRL-MR-1451
N63-15400	12-27	RR-TR-62-7
N63-15401	12-19	NO REPORT NUMBER
N63-15402	12-18	NAMC-AML-1319
N63-15403	12-18	EUR-203.F
N63-15404	12-18	KAPL-2252
N63-15405	12-16	ARL-TDR-62-20
N63-15406	12-24	NO REPORT NUMBER
N63-15407	12-26	NO REPORT NUMBER
N63-15408	12-19	T&AM-242
N63-15409	12-17	DP-820
N63-15410	12-10	KAPL-2217
N63-15411	12-18	NO REPORT NUMBER
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N63-15413	12-25	AFOSR-2251
N63-15414	12-07	NO REPORT NUMBER
N63-15415	12-32	NAA-SR-8127
N63-15416	12-07	ROC/LIN-80
N63-15417	12-18	NO REPORT NUMBER
N63-15418	12-20	AAE-63-1
N63-15419	12-08	NO REPORT NUMBER
N63-15420	12-17	WAL-TR-142.5/2-1
N63-15421	12-20	NASA-TN-D-1859
N63-15422	12-19	ASD-TDR-62-225
N63-15423	12-24	IPPJ-2
N63-15424	12-04	TDM-W-11,774, REV. 1
N63-15425	12-08	NO REPORT NUMBER
N63-15426	12-08	NO REPORT NUMBER
N63-15427	12-11	NO REPORT NUMBER
N63-15428	12-21	NO REPORT NUMBER
N63-15429	12-26	CAL-HM-1510-Y-/1/
N63-15430	12-32	NO REPORT NUMBER
N63-15431	12-18	ASD-TDR-61-529
N63-15432	12-03	NO REPORT NUMBER
N63-15433	12-15	AFCRL-62-953
N63-15434	12-01	HR-11040
N63-15435	12-29	RAE-TRANS-1024
N63-15436	12-18	NO REPORT NUMBER
N63-15437	12-08	PIBMRI-1128-63
N63-15438	12-33	K-213
N63-15439	12-25	RAD-TR-63-9
N63-15440	12-07	UTC-2002-FR
N63-15441	12-07	ORNL-3417
N63-15442	12-23	LNF-62/108
N63-15443	12-08	NO REPORT NUMBER
N63-15444	12-12	GCA-TR-62-4-G
N63-15445	12-28	EFINS-63-18
N63-15446	12-23	UCRL-7061
N63-15447	12-14	AMRL-TDR-63-6
N63-15448	12-16	AMRL-TDR-63-4
N63-15449	12-09	LNF-63/1
N63-15450	12-23	LNF-63/5
N63-15451	12-07	JPL-TR-32-369
N63-15452	12-05	JPL-TR-32-356
N63-15453	12-25	NO REPORT NUMBER
N63-15454	12-32	NO REPORT NUMBER
N63-15455	12-11	NO REPORT NUMBER
N63-15456	12-18	WAL-TR-129.1/1
N63-15457	12-25	NO REPORT NUMBER
N63-15458	12-01	PNE-209F
N63-15459	12-18	WAL-TR-320.1/9
N63-15460	12-20	RM-3129-PR
N63-15461	12-23	TM-80
N63-15462	12-13	NO REPORT NUMBER
N63-15463	12-18	ESRD-13-10
N63-15464	12-23	SCR-483
N63-15465	12-18	WADD-TR-60-746, PT. II
N63-15466	12-19	AERE-M-599
N63-15467	12-14	NRL-TDR-62-78
N63-15468	12-18	WAL-TR-340.2/1
N63-15469	12-24	NO REPORT NUMBER
N63-15470	12-05	NO REPORT NUMBER
N63-15471	12-13	NASA-TN-D-1196
N63-15472	12-24	NASA-TN-D-1636
N63-15473	12-30	NASA-TN-D-1772
N63-15474	12-15	LNF-63/2
N63-15475	12-11	NO REPORT NUMBER
N63-15476	12-24	MATT-157
N63-15477	12-24	MATT-168
N63-15478	12-24	MATT-170
N63-15479	12-18	SB-63-5
N63-15480	12-09	AFCRL-63-67
N63-15481	12-19	RDR-1343-1
N63-15482	12-07	ARDD-2289-4
N63-15483	12-11	ARDD-1948-2
N63-15484	12-11	AEDC-TDR-63-94
N63-15485		ACC. NO. NOT USED
N63-15486	12-23	UCRL-7280
N63-15487	12-23	UCRL-10609
N63-15488	12-24	UCRL-10631
N63-15489	12-15	ORO-490
N63-15490	12-16	AEC-TR-5500
N63-15491	12-16	AEC-TR-5579
N63-15492	12-09	AFCRL-63-447
N63-15493	12-17	NO REPORT NUMBER
N63-15494	12-18	ASD-TR-61-713
N63-15495	12-07	NO REPORT NUMBER
N63-15496	12-16	AMRL-TDR-63-14
N63-15497	12-23	GEAP-4018
N63-15498	12-33	ME-3
N63-15499	12-07	ARF-3227-3
N63-15500	12-20	R-159
N63-15501	12-24	NASA-TN-D-1783
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N63-15505	12-29	NO REPORT NUMBER
N63-15506	12-29	NO REPORT NUMBER
N63-15507	12-13	NASA-TN-D-1628
N63-15508	12-17	ASD-TDR-62-78
N63-15509	12-11	NASA-TN-D-1870
N63-15510	12-16	NASA-TT-F-157
N63-15511	12-16	NASA-TT-F-163
N63-15512	12-18	BM-RI-6231
N63-15513	12-09	TR-973, SUP. 1
N63-15514	12-05	NO REPORT NUMBER
N63-15515	12-18	SPS-730
N63-15516	12-32	NO REPORT NUMBER
N63-15517	12-18	Y-1413
N63-15518	12-16	USNRDL-TR-624
N63-15519	12-07	PA-TM-1167
N63-15520	12-11	PR-103-P
N63-15521	12-11	DI-82-0224
N63-15522	12-20	AEC-TR-5204
N63-15523	12-20	NO REPORT NUMBER
N63-15524	12-07	ASD-TDR-63-65
N63-15525	12-31	HR-1959
N63-15526	12-04	NASA-TN-D-1773
N63-15527	12-02	NASA-TN-D-1781
N63-15528	12-11	AGARD-132-147
N63-15529	12-07	T63-8-1
N63-15530	12-15	NO REPORT NUMBER
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N63-15533	12-32	NO REPORT NUMBER
N63-15534	12-18	NO REPORT NUMBER
N63-15535	12-32	NO REPORT NUMBER
N63-15536	12-11	AFCRL-63-238
N63-15537	12-09	LNF-63/17
N63-15538	12-09	AML-6700
N63-15539	12-10	USNRDL-TR-623
N63-15540	12-18	IDO-14598
N63-15541	12-10	IDO-16849
N63-15542	12-07	IDO-16851

N63-15543	12-23	UNC-5014, VOL. A
N63-15544	12-25	UNC-5014, VOL. B
N63-15545	12-18	ASD-TR-61-436, PT. II
N63-15546	12-27	NO REPORT NUMBER
N63-15547	12-30	NO REPORT NUMBER
N63-15548	12-17	NO REPORT NUMBER
N63-15549	12-18	ARL-63-15
N63-15550	12-10	LA-2808
N63-15551	12-15	NBL-194
N63-15552	12-18	HW-71023
N63-15553	12-28	IGY SOLAR ACT. REPT. SER.-22
N63-15554	12-32	RAE-TRANS-1029
N63-15555	12-07	RAE-TRANS-1030
N63-15556	12-18	DP-813
N63-15557	12-15	DP-814
N63-15558	12-17	MLM-1145
N63-15559	12-09	HW-74783
N63-15560	12-16	USNRDL-TR-630
N63-15561	12-11	NASA-TN-D-1728
N63-15562	12-10	NASA-TN-D-1797
N63-15563	12-10	NASA-TN-D-1888
N63-15564	12-14	HUMRRO-TR-83
N63-15565	12-23	LNF-63/11
N63-15566	12-18	NBS-TN-187
N63-15567	12-15	AFSWC-TDR-63-3
N63-15568	12-25	LNF-62/113
N63-15569	12-23	LNF-63/16
N63-15570	12-32	RM-3595-PR
N63-15571	12-14	AMRL-TDR-63-1
N63-15572	12-23	LNF-62/99
N63-15573	12-23	LNF-63/19
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N63-15575	12-20	ARL-63-18
N63-15576	12-26	TG-371-48
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N63-15579	12-26	NO REPORT NUMBER
N63-15580	12-26	NO REPORT NUMBER
N63-15581	12-26	NO REPORT NUMBER
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N63-15601	12-10	SM-41379
N63-15602	12-11	SM-41379-1
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N63-15604	12-26	SM-41379-3
N63-15605	12-10	SM-41379-4
N63-15606	12-10	SM-41379-5
N63-15607	12-10	SM-41379-6
N63-15608	12-10	SM-41379-7
N63-15609	12-10	SM-41379-8
N63-15610	12-10	SM-41379-9
N63-15611	12-07	NO REPORT NUMBER
N63-15612	12-19	WAL-TR-811.6/1
N63-15613	12-10	ARL-63-1
N63-15614	12-25	UCRL-10649
N63-15615	12-05	NO REPORT NUMBER
N63-15616	12-28	NO REPORT NUMBER
N63-15617	12-11	GASL-TM-76-A
N63-15618	12-15	IDO-12029
N63-15619	12-32	NO REPORT NUMBER
N63-15620	12-16	AMRL-TDR-63-10
N63-15621	12-14	AMRL-TDR-63-12
N63-15622	12-07	PA-TR-3046
N63-15623	12-33	NO REPORT NUMBER
N63-15624	12-33	NO REPORT NUMBER
N63-15625	12-18	WAL TR 320.1/10
N63-15626	12-01	ASD-TDR-63-119
N63-15627	12-09	NO REPORT NUMBER
N63-15628	12-09	NO REPORT NUMBER
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N63-15635	12-30	NO REPORT NUMBER
N63-15636	12-09	NO REPORT NUMBER
N63-15637	12-09	NO REPORT NUMBER
N63-15638	12-09	NO REPORT NUMBER
N63-15639	12-20	NO REPORT NUMBER
N63-15640	12-20	NO REPORT NUMBER
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N63-15643	12-20	NO REPORT NUMBER
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N63-15645	12-18	BM-RI-6219
N63-15646	12-16	AMRL-TDR-63-5
N63-15647	12-20	CETIS-33
N63-15648	12-07	EUR-204.I
N63-15649	12-13	EUR-237.F
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N63-15658	12-16	FTD-TT-62-1619/1&2
N63-15659	12-25	AFCRL-63-57
N63-15660	12-15	NOLC-TM-43-15
N63-15661	12-24	IPPJ-4
N63-15662	12-13	FTD-TT-62-135/1&2
N63-15663	12-15	AFCRL-63-203
N63-15664	12-19	WADC-TR-56-645, PT. VII
N63-15665	12-16	RM-3541-PR
N63-15666	12-16	ARL-TDR-63-8
N63-15667	12-27	WAL-TR-766.41/2-2
N63-15668	12-15	USNRDL-TR-621
N63-15669	12-08	RADC-TDR-63-112
N63-15670	12-01	AGARD 163-177
N63-15671	12-09	AFCRL-62-939
N63-15672	12-24	AFCRL-63-41
N63-15673	12-08	BRL-1186
N63-15674	12-09	HW-71044
N63-15675	12-17	HW-76646
N63-15676	12-24	AFCRL-63-25
N63-15677	12-02	ONERA-TN-69
N63-15678	12-23	AFCRL-62-1090
N63-15679	12-33	NO REPORT NUMBER
N63-15680	12-09	ASD-TR-61-277
N63-15681	12-27	NO REPORT NUMBER
N63-15682	12-27	DM 62-126
N63-15683	12-09	RADC-TDR-63-83
N63-15684	12-17	NO REPORT NUMBER
N63-15685	12-24	AFCRL-63-82
N63-15686	12-26	PIBAL-772
N63-15687	12-28	EK/ARD-ED-874
N63-15688	12-09	AFCRL-62-319
N63-15689	12-18	ASD-TDR-62-1004
N63-15690	12-09	AFCRL-62-522
N63-15691	12-20	NO REPORT NUMBER
N63-15692	12-12	NASA-TN-D-1572
N63-15693	12-11	NASA-TN-D-1579
N63-15694	12-31	NASA-TN-D-1638
N63-15695	12-27	NASA-TN-D-1661
N63-15696	12-08	PCE-R-9854A
N63-15697	12-11	ARL-63-24
N63-15698	12-04	RF-TR-63-7
N63-15699	12-11	NO REPORT NUMBER
N63-15700	12-25	JPRS-17351
N63-15701	12-09	EUR-263.D
N63-15702	12-20	RM-3367-PR
N63-15703	12-20	MRC-394
N63-15704	12-13	NO REPORT NUMBER
N63-15705	12-07	DCAS-TDR-62-19
N63-15706	12-05	NO REPORT NUMBER
N63-15707	12-16	CP-63-693
N63-15708	12-01	NO REPORT NUMBER
N63-15709	12-11	ARL-63-26
N63-15710	12-18	ASD-TDR-62-8
N63-15711	12-06	ASD-TDR-63-115
N63-15712	12-20	NO REPORT NUMBER
N63-15713	12-33	ASD-TDR-62-1029
N63-15714	12-25	RADC-TDR-63-82
N63-15715	12-18	ASD-TR-61-203, PT. II
N63-15716	12-17	NO REPORT NUMBER
N63-15717	12-09	NAVWEPS-8144
N63-15718		ACC. NO. NOT USED
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N63-15720		ACC. NO. NOT USED
N63-15721	12-18	HW-69680
N63-15722	12-23	HW-68525

N63-15723	12-18	BM-RI-6230
N63-15724	12-12	AFCRL-63-285
N63-15725	12-10	RE-162
N63-15726	12-18	JPL-TR-32-371
N63-15727	12-23	NO REPORT NUMBER
N63-15728	12-23	NO REPORT NUMBER
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N63-15730	12-18	USBM-U-1031
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N63-15732	12-18	ARL/MET-45
N63-15733	12-01	RM-3074-PR
N63-15734	12-32	RAE-TN-SPACE-23
N63-15735	12-26	RTD-TDR-63-1033
N63-15736	12-05	NO REPORT NUMBER
N63-15737	12-23	AROD-3309-2
N63-15738	12-09	ASD-TR-61-631
N63-15739	12-17	ONERA-TN-71
N63-15740	12-33	ONERA-TN-72
N63-15741	12-24	AFCRL-63-446
N63-15742	12-03	ARC-R&M-3298
N63-15743	12-03	ARC-R&M-3304
N63-15744	12-03	ARC-R&M-3307
N63-15745	12-25	R-161
N63-15746	12-07	NO REPORT NUMBER
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N63-15748	12-28	NO REPORT NUMBER
N63-15749	12-18	NO REPORT NUMBER
N63-15750	12-18	ASD-TDR-62-1018
N63-15751	12-23	NO REPORT NUMBER
N63-15752	12-20	SB-62-54
N63-15753	12-02	DI-88-0232
N63-15754	12-18	WADD-TR-60-143, PT. IV
N63-15755	12-18	GEMP-21A
N63-15756	12-18	GEMP-177A
N63-15757	12-30	DAMP-TM-62-27
N63-15758	12-10	AD-282393DRCL-370
N63-15759	12-11	NO REPORT NUMBER
N63-15760	12-17	WAL-TR-766.2/3-2
N63-15761	12-11	NO REPORT NUMBER
N63-15762	12-11	NASA-TR-R-22
N63-15763		ACC. NO. NOT USED
N63-15764	13-16	USNRDL-TR-634
N63-15765	13-33	NASA-TN-D-1446
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N63-15767	13-27	NASA-TN-D-1665
N63-15768	13-11	NASA-TN-D-1703
N63-15769	13-17	NASA-TN-D-1708
N63-15770	13-06	NASA-TN-D-1710
N63-15771	13-03	NASA-TN-D-1774
N63-15772	13-18	NASA-TN-D-1784
N63-15773	13-26	NASA-TN-D-1787
N63-15774	13-04	NASA-TN-D-1801
N63-15775	13-30	NASA-TN-D-1895
N63-15776	13-14	NASA-TN-D-1897
N63-15777	13-33	NASA-TN-D-1919
N63-15778	13-34	NASA-TN-D-1920
N63-15779	13-31	NASA-TN-D-1639
N63-15780	13-10	LAMS-2894
N63-15781	13-11	MF-35
N63-15782	13-23	AFCRL-63-262
N63-15783	13-08	NO REPORT NUMBER
N63-15784	13-13	CAL-QM-1626-A-2
N63-15785	13-17	MTI-63TR15
N63-15786	13-23	NO REPORT NUMBER
N63-15787	13-21	NO REPORT NUMBER
N63-15788	13-09	SMIR-63-1
N63-15789	13-08	NO REPORT NUMBER
N63-15790	13-18	BMI-1626
N63-15791	13-12	NO REPORT NUMBER
N63-15792	13-25	TR-62-255.3
N63-15793	13-14	ER-12838
N63-15794	13-23	C-16
N63-15795	13-33	NO REPORT NUMBER
N63-15796	13-01	NO REPORT NUMBER
N63-15797	13-17	WADD-TR-60-787, PT. II
N63-15798	13-21	NO REPORT NUMBER
N63-15799	13-16	NO REPORT NUMBER
N63-15800	13-29	PIR-7250-26A
N63-15801	13-25	NO REPORT NUMBER
N63-15802	13-25	NOLTR-62-125
N63-15803	13-05	NO REPORT NUMBER
N63-15804	13-10	SS-1211
N63-15805	13-29	NO REPORT NUMBER
N63-15806	13-33	ASD-TDR-62-186
N63-15807	13-11	ASD-TDR-62-962
N63-15808	13-07	ASD-TDR-62-1067
N63-15809	13-02	SM-62-50
N63-15810	13-23	SLAC-13
N63-15811	13-01	NO REPORT NUMBER
N63-15812	13-01	AROD-2776-11
N63-15813	13-11	DVL-251
N63-15814	13-01	NO REPORT NUMBER
N63-15815	13-20	NO REPORT NUMBER
N63-15816	13-09	AFCRL-62-583
N63-15817	13-07	AROD-007-15
N63-15818	13-07	PIBMRI-1104-62
N63-15819	13-12	NO REPORT NUMBER
N63-15820	13-26	NO REPORT NUMBER
N63-15821	13-20	SP-372/001/01
N63-15822	13-07	NO REPORT NUMBER
N63-15823	13-23	BAW-1266
N63-15824	13-20	ARL-63-33
N63-15825	13-09	LMSC-6-90-63-29
N63-15826	13-25	AFCRL-63-454
N63-15827	13-33	ASD-TDR-62-379
N63-15828		ACC. NO. NOT USED
N63-15829	13-25	RADC-TDR-62-601
N63-15830	13-07	ASD-TR-7-995/11/
N63-15831	13-18	AMC-TR-7-866/III/
N63-15832	13-25	AFCRL-62-534
N63-15833	13-04	ARC-R&M-3314
N63-15834		ACC. NO. NOT USED
N63-15835	13-01	DASA-1357/1/
N63-15836	13-26	NO REPORT NUMBER
N63-15837		ACC. NO. NOT USED
N63-15838	13-18	ASD-TDR-62-710
N63-15839	13-33	ASD-TDR-61-338
N63-15840	13-20	CIT-ORO-16-TR8
N63-15841	13-07	NAS-NS-3107
N63-15842	13-09	ML-945
N63-15843	13-07	ROC/LIN-70
N63-15844	13-07	NOLTR-63-10
N63-15845		ACC. NO. NOT USED
N63-15846	13-16	NO REPORT NUMBER
N63-15847	13-16	SAM-TDR-63-20
N63-15848	13-23	NO REPORT NUMBER
N63-15849	13-16	NO REPORT NUMBER
N63-15850	13-23	NO REPORT NUMBER
N63-15851	13-25	NO REPORT NUMBER
N63-15852	13-29	NO REPORT NUMBER
N63-15853	13-11	AGES-62-17
N63-15854	13-18	WAL-TR-311.1/1
N63-15855	13-12	NO REPORT NUMBER
N63-15856	13-23	DVL-250
N63-15857	13-23	LNF-63/18
N63-15858	13-18	ASD-TDR-62-99
N63-15859	13-17	MTI-63TR13
N63-15860	13-34	LR-16654
N63-15861	13-08	RAD-TR-63-15
N63-15862	13-17	NASA-SP-501
N63-15863	13-20	LPC-556-M-1
N63-15864	13-01	SP-216
N63-15865	13-07	NO REPORT NUMBER
N63-15866	13-15	REIC-25
N63-15867	13-24	IPPJ-6
N63-15868	13-24	IPPJ-8
N63-15869	13-12	RPU-S-10
N63-15870	13-18	ARL/SM-287
N63-15871	13-24	TDR-930/2210-02/TN-1
N63-15872	13-01	NO REPORT NUMBER
N63-15873	13-32	NO REPORT NUMBER
N63-15874	13-01	NO REPORT NUMBER
N63-15875	13-25	NO REPORT NUMBER
N63-15876	13-07	NO REPORT NUMBER
N63-15877	13-07	NO REPORT NUMBER
N63-15878	13-18	ASD-TR-61-313, PT. II
N63-15879	13-33	ASD-TDR-62-165, VOL. II
N63-15880	13-18	ASD-TDR-62-203, PT. II
N63-15881	13-18	ASD-TDR-63-296
N63-15882	13-11	ASD-TDR-62-792, VOL. II
N63-15883	13-17	NO REPORT NUMBER
N63-15884	13-10	PMR-MP-60-7
N63-15885	13-16	SAM-TDR-63-17
N63-15886	13-09	IDO-16809
N63-15887	13-10	IDO-16850
N63-15888	13-16	NO REPORT NUMBER
N63-15889	13-23	UCRL-10703
N63-15890	13-28	AFCRL-63-401
N63-15891	13-19	NOTS-TP-2936
N63-15892	13-09	NO REPORT NUMBER
N63-15893	13-26	P-62-27
N63-15894	13-26	NO REPORT NUMBER
N63-15895	13-26	NO REPORT NUMBER
N63-15896	13-12	RM-3585-PR
N63-15897	13-17	RIA-63-959
N63-15898	13-13	TIL/T-5388
N63-15899	13-17	PA-TM-1170
N63-15900	13-11	ARAP-50
N63-15901	13-04	NO REPORT NUMBER
N63-15902	13-14	R-5135

N63-15903	13-16	SAM-TDR-62-139
N63-15904	13-25	FTD-TT-62-414/144
N63-15905	13-27	NAA-SR-7085
N63-15906		ACC. NO. NOT USED
N63-15907	13-25	NO REPORT NUMBER
N63-15908	13-20	SP-373/000/01
N63-15909	13-20	MRC-383
N63-15910	13-20	MRC-387
N63-15911	13-27	WAL-TR-465.54/4
N63-15912	13-33	CVC-2-53420/2R400
N63-15913	13-33	CVC-2-53420/3R411
N63-15914	13-33	CVC-2-53420/3R436
N63-15915	13-29	JPL-TM-33-72
N63-15916	13-22	NO REPORT NUMBER
N63-15917	13-07	R-5077
N63-15918	13-23	LA-2805
N63-15919	13-10	NO REPORT NUMBER
N63-15920	13-29	TDR-930/2352/TR-1
N63-15921	13-24	RADC-TDR-63-138
N63-15922	13-03	NASA-TN-D-1884
N63-15923	13-27	DTMB-1456
N63-15924	13-22	NO REPORT NUMBER
N63-15925	13-16	GATC-MR-1163-50
N63-15926	13-18	NO REPORT NUMBER
N63-15927	13-17	NO REPORT NUMBER
N63-15928	13-07	NO REPORT NUMBER
N63-15929	13-25	LA-2880
N63-15930		ACC. NO. NOT USED
N63-15931	13-32	JPL-TR-32-402
N63-15932	13-33	GALCIT-SM-63-2
N63-15933	13-07	NO REPORT NUMBER
N63-15934	13-33	GEMP-186
N63-15935	13-24	EFINS-63-16
N63-15936	13-29	CRSR-138
N63-15937	13-10	ANL-6411
N63-15938	13-24	MRC-388
N63-15939	13-20	MRC-391
N63-15940	13-18	ASD-TDR-62-968
N63-15941	13-02	BRL-1193
N63-15942	13-27	NO REPORT NUMBER
N63-15943	13-12	NO REPORT NUMBER
N63-15944	13-28	CR-61
N63-15945	13-08	CAL-GM-1580-G-101
N63-15946	13-04	MIT-AL-TR-29
N63-15947	13-14	SAM-TDR-62-135
N63-15948	13-12	RM-3204-PR
N63-15949	13-10	ERDA-20
N63-15950	13-07	PA-TR-3055
N63-15951	13-18	OTS-51084
N63-15952	13-07	AFCRL-63-426
N63-15953	13-23	MRC-386
N63-15954	13-26	NASA-TN-D-1736
N63-15955	13-17	WAL-TR-142.5/1-3
N63-15956	13-20	ACORN-23
N63-15957	13-15	NASA-TN-D-1704
N63-15958	13-21	NO REPORT NUMBER
N63-15959	13-15	NO REPORT NUMBER
N63-15960	13-20	LMSC-6-90-62-116
N63-15961	13-33	ASD-TDR-63-267
N63-15962	13-04	DFL-167
N63-15963	13-11	PIBAL-756
N63-15964	13-28	IGY SOLAR ACT. REPT.-21
N63-15965	13-26	BMI-1619/DEL./
N63-15966	13-14	NO REPORT NUMBER
N63-15967	13-08	AFCRL-63-87
N63-15968	13-33	PIBAL-663
N63-15969	13-17	BMI-1627
N63-15970	13-23	LAMS-2642
N63-15971	13-10	EOS-1860-Q-4
N63-15972	13-20	NYO-10425
N63-15973	13-08	AFESD-TDR-62-116
N63-15974	13-18	WAL-TR-834.12/2-1
N63-15975	13-26	NO REPORT NUMBER
N63-15976	13-01	NO REPORT NUMBER
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N63-16002	13-08	NO REPORT NUMBER
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N63-16016	13-09	EE-556
N63-16017	13-09	EE-525
N63-16018	13-09	EE-542
N63-16019	13-09	EE-541
N63-16020	13-09	EE-547
N63-16021	13-09	EE-540
N63-16022	13-23	NYO-10262
N63-16023	13-12	UAG-C-28
N63-16024	13-32	RAE-TRANS-1027
N63-16025	13-11	RAD-TM-62-79
N63-16026	13-12	UAG-C-29
N63-16027	13-21	RPA-6-62
N63-16028	13-34	AE62-0413
N63-16029	13-09	W-J-63-434R16
N63-16030	13-10	IDO-19021, VOL. I
N63-16031	13-15	ORNL-332/3RD ED./
N63-16032	13-09	D2-90389
N63-16033	13-11	AEDC-TDR-63-51
N63-16034	13-28	UCRL-6693
N63-16035	13-16	UCRL-10559
N63-16036	13-23	UCRL-10585
N63-16037	13-11	NOTS-TP-3036
N63-16038	13-07	NO REPORT NUMBER
N63-16039	13-02	NO REPORT NUMBER
N63-16040	13-16	AEET/AM/27
N63-16041	13-21	AFCRL-63-284
N63-16042	13-21	NO REPORT NUMBER
N63-16043	13-16	NRC-385
N63-16044	13-12	RPU-S-9
N63-16045	13-18	ASD-TDR-62-534
N63-16046	13-34	ARF-B244-6
N63-16047	13-34	ARF-2244-3
N63-16048	13-19	ASD-TDR-62-843
N63-16049	13-23	R-195
N63-16050	13-25	NBS-TN-173
N63-16051	13-13	AD-282454
N63-16052	13-13	NO REPORT NUMBER
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N63-16056	13-17	NO REPORT NUMBER
N63-16057	13-13	NO REPORT NUMBER
N63-16058	13-34	NO REPORT NUMBER
N63-16059	13-13	NO REPORT NUMBER
N63-16060	13-34	NO REPORT NUMBER
N63-16061	13-13	NO REPORT NUMBER
N63-16062	13-26	NO REPORT NUMBER
N63-16063	13-17	NO REPORT NUMBER
N63-16064	13-06	ASD-TDR-62-899
N63-16065	13-11	NO REPORT NUMBER
N63-16066	13-08	NO REPORT NUMBER
N63-16067	13-10	NO REPORT NUMBER
N63-16068	13-25	AFOSR-2648
N63-16069	13-09	EE-555
N63-16070	13-09	EE-546
N63-16071	13-09	EE-539
N63-16072	13-09	EE-545
N63-16073	13-09	EE-551
N63-16074	13-09	EE-544
N63-16075	13-17	D6-4080-2
N63-16076	13-33	NO REPORT NUMBER
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N63-16095	13-15	NO REPORT NUMBER
N63-16096	13-15	NO REPORT NUMBER
N63-16097	13-17	NO REPORT NUMBER
N63-16098	13-01	NO REPORT NUMBER
N63-16099	13-01	NO REPORT NUMBER
N63-16100	13-34	SM-62-6
N63-16101	13-25	NAVWEPS-8086
N63-16102	13-07	ASD-TDR-62-540
N63-16103	13-01	CN-73194
N63-16104	13-04	NO REPORT NUMBER
N63-16105	13-22	AD-294393
N63-16106	13-25	RADC-TDR-63-30
N63-16107	13-09	TIS-R62-ETC2
N63-16108	13-06	ER-5038
N63-16109	13-17	RADC-TR-59-603, PT. IV
N63-16110	13-09	ASD-TDR-63-59
N63-16111	13-06	FTD-TT-62-35/1&2&4
N63-16112	13-25	ARF-3142-12
N63-16113	13-25	ASD-TDR-62-89
N63-16114	13-06	ASD-TDR-62-42
N63-16115	13-24	ASD-TDR-62-411, PT. I
N63-16116	13-18	ASD-TDR-62-442
N63-16117	13-02	ASD-TDR-62-1102
N63-16118	13-18	TID-7642, BK. 2
N63-16119	13-04	AE-61-4-1
N63-16120	13-18	NO REPORT NUMBER
N63-16121	13-29	TG-230-T304
N63-16122	13-16	JPLAI/LS-260, SUPPL.
N63-16123	13-14	PRL-TDR-63-3
N63-16124	13-10	LA-2858
N63-16125	13-23	ORNL-3383
N63-16126	13-16	SAM-TDR-62-148
N63-16127	13-16	SAM-TDR-63-7
N63-16128		ACC. NO. NOT USED
N63-16129	13-08	NSS-2579
N63-16130	13-03	NO REPORT NUMBER
N63-16131	13-24	AFCRL-63-259
N63-16132	13-23	AFCRL-63-283
N63-16133	13-21	AFCRL-63-467
N63-16134	13-02	TDR-930/2230-06/TR-1
N63-16135	13-02	NASA-TM-X-149
N63-16136	13-02	NASA-TM-X-154
N63-16137	13-02	NASA-TM-X-345
N63-16138	13-04	NASA-TM-X-364
N63-16139	13-03	NASA-TM-X-439
N63-16140	13-04	NASA-TM-X-441
N63-16141	13-07	NO REPORT NUMBER
N63-16142		ACC. NO. NOT USED
N63-16143	13-10	NO REPORT NUMBER
N63-16144	13-07	UCRL-7238
N63-16145	13-11	DVL-190
N63-16146	13-07	AEET/CD/11
N63-16147	13-10	NO REPORT NUMBER
N63-16148	13-01	CARDE-TN-740/63
N63-16149	13-15	UCRL-10499
N63-16150	13-09	SURI-EE975-6304SR1
N63-16151	13-20	NO REPORT NUMBER
N63-16152	13-16	NO REPORT NUMBER
N63-16153	13-13	NO REPORT NUMBER
N63-16154	13-17	R-368
N63-16155	13-17	JPL-TM-33-106
N63-16156		ACC. NO. NOT USED
N63-16157	13-14	NO REPORT NUMBER
N63-16158	13-09	NRL-5802
N63-16159	13-30	NASA-TN-D-1566
N63-16160	13-03	NASA-TN-D-1637
N63-16161	13-18	NASA-TN-D-1707
N63-16162	13-11	NASA-TN-D-1711
N63-16163	13-12	NASA-TN-D-1746
N63-16164	13-07	NASA-TN-D-1791
N63-16165	13-09	TR-63-1
N63-16166	13-03	ARC-CP-619
N63-16167	13-07	PWAC-393
N63-16168	13-23	RK-TR-63-7
N63-16169	13-04	RAC-CP-638
N63-16170	13-23	ORNL-3440
N63-16171	13-32	P-2691
N63-16172	13-25	NO REPORT NUMBER
N63-16173	13-29	JPL-SPS-37-20, VOL. IV
N63-16174	13-14	D3-3512-3
N63-16175	13-18	NO REPORT NUMBER
N63-16176	13-18	RAD-SR-62-219
N63-16177	13-18	RAD-SR-63-29
N63-16178	13-23	ARL-63-61
N63-16179	13-23	ANL-6717
N63-16180	13-24	HATT-169
N63-16181	13-07	NO REPORT NUMBER
N63-16182	13-15	C-15
N63-16183	13-18	WAL-TR-766.3/2
N63-16184	13-13	R63SD20
N63-16185	13-03	NASA-TN-D-1788
N63-16186	13-11	NASA-TN-D-1800
N63-16187	13-23	IPST-644
N63-16188	13-26	R-5179
N63-16189	13-25	NO REPORT NUMBER
N63-16190	13-29	NO REPORT NUMBER
N63-16191	13-17	NO REPORT NUMBER
N63-16192	13-18	ARF-2182-24
N63-16193	13-11	DVL-206
N63-16194	13-07	NO REPORT NUMBER
N63-16195	13-05	NO REPORT NUMBER
N63-16196	13-05	NO REPORT NUMBER
N63-16197	13-05	NO REPORT NUMBER
N63-16198	13-29	NO REPORT NUMBER
N63-16199	13-05	NO REPORT NUMBER
N63-16200	13-05	NO REPORT NUMBER
N63-16201		ACC. NO. NOT USED
N63-16202	13-12	PNE-213F
N63-16203	13-12	PNE-235F
N63-16204	13-18	NO REPORT NUMBER
N63-16205	13-02	D1-82-0230
N63-16206	13-04	BRL-MR-1464
N63-16207	13-21	NO REPORT NUMBER
N63-16208	13-10	NO REPORT NUMBER
N63-16209	13-16	NO REPORT NUMBER
N63-16210	13-16	NO REPORT NUMBER
N63-16211	13-16	NO REPORT NUMBER
N63-16212	13-16	NO REPORT NUMBER
N63-16213	13-16	NO REPORT NUMBER
N63-16214	13-16	NO REPORT NUMBER
N63-16215	13-16	NO REPORT NUMBER
N63-16216	13-14	NO REPORT NUMBER
N63-16217	13-14	NO REPORT NUMBER
N63-16218	13-16	NO REPORT NUMBER
N63-16219	13-06	NO REPORT NUMBER
N63-16220	13-09	SB-63-17
N63-16221	13-08	NO REPORT NUMBER
N63-16222	13-05	NO REPORT NUMBER
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N63-16224	13-29	NO REPORT NUMBER
N63-16225	13-11	NO REPORT NUMBER
N63-16226	13-14	NO REPORT NUMBER
N63-16227	13-18	DSR-8692
N63-16228	13-01	NO REPORT NUMBER
N63-16229	13-05	NO REPORT NUMBER
N63-16230		ACC. NO. NOT USED
N63-16231	13-23	NO REPORT NUMBER
N63-16232	13-05	NO REPORT NUMBER
N63-16233	13-26	NACA-RM-E54C30
N63-16234	13-26	NACA-RM-E56D24
N63-16235	13-26	NACA-RM-E57C01
N63-16236	13-26	NACA-RM-E57C07
N63-16237	13-03	NACA-RM-L57D22B
N63-16238	13-33	NACA-RM-L57D25A
N63-16239	13-33	NACA-RM-L57D26A
N63-16240	13-33	NACA-RM-L57D30A
N63-16241	13-13	NACA-RM-L58D25A
N63-16242	13-21	AFCRL-63-71
N63-16243	13-25	LNF-63/26
N63-16244	13-33	C11-75
N63-16245	13-05	NO REPORT NUMBER
N63-16246	13-05	NO REPORT NUMBER
N63-16247	13-32	AD-290800
N63-16248	13-07	AERE-R-3949
N63-16249	13-19	RIA-63-798
N63-16250	13-17	NO REPORT NUMBER
N63-16251		ACC. NO. NOT USED
N63-16252	13-25	NO REPORT NUMBER
N63-16253	13-26	NO REPORT NUMBER
N63-16254	13-29	NO REPORT NUMBER
N63-16255	13-07	CCL-140
N63-16256	13-23	MRL-114/R/
N63-16257	13-25	NO REPORT NUMBER
N63-16258	13-29	NASA-TR-R-158
N63-16259	13-02	ASD-TDR-62-360
N63-16260	13-07	NRL-5714
N63-16261	13-26	NO REPORT NUMBER
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N63-16264	13-18	NO REPORT NUMBER
N63-16265	13-21	AFCRL-TDR-63-243
N63-16266	13-21	NO REPORT NUMBER
N63-16267	13-14	NO REPORT NUMBER
N63-16268	13-32	IAS PAPER-62-21
N63-16269	13-15	ASD-TDR-62-882
N63-16270	13-21	PNE-200F
N63-16271	13-24	S-528
N63-16272	13-11	AERONAUTICAL ENG. REPT.-645
N63-16273	13-01	NO REPORT NUMBER
N63-16274	13-04	AMRL-TDR-62-134
N63-16275	13-30	SB-63-1
N63-16276	13-20	AFSWC-TDR-62-123
N63-16277	13-29	NRL-5937
N63-16278	13-11	DVL-238
N63-16279	13-07	S-13859
N63-16280	13-23	AFCRL-63-457
N63-16281	13-09	AFCRL-63-93
N63-16282	13-23	NO REPORT NUMBER
N63-16283	13-24	NUP-63-1
N63-16284	13-23	NUP-63-3
N63-16285	13-14	AMRL-TDR-63-13
N63-16286	13-18	AMRL-TDR-62-99/1/
N63-16287	13-16	SCR-652
N63-16288	13-03	NASA-TR-R-139
N63-16289	13-02	NASA-TN-D-1633
N63-16290	13-23	NASA-TN-D-1664
N63-16291	13-24	NASA-TN-D-1720
N63-16292	13-12	NASA-TN-D-1721
N63-16293	13-28	NASA-TN-D-1764
N63-16294	13-30	NASA-TN-D-1790
N63-16295	13-32	NASA-TN-D-1794
N63-16296	13-18	NASA-TN-D-1798
N63-16297	13-02	NASA-TN-D-1804
N63-16298	13-30	NASA-TN-D-1828
N63-16299	13-17	AEDC-TDR-63-67
N63-16300	13-29	DFL-169
N63-16301	13-04	DFL-203
N63-16302	13-24	ASD-TDR-62-320
N63-16303		ACC. NO. NOT USED
N63-16304	13-20	NO REPORT NUMBER
N63-16305	13-25	ASD-TDR-62-74
N63-16306	13-17	EMI-4454-111-63U
N63-16307	13-24	EDR-2617
N63-16308	13-09	ASD-TDR-62-687
N63-16309	13-23	AFCRL-63-103
N63-16310	13-24	AFCRL-63-81
N63-16311	13-34	MIT R62-15
N63-16312	13-24	RM-3054-PR
N63-16313	13-24	BBE63-001
N63-16314	13-17	MTI-62TR14
N63-16315	13-23	NO REPORT NUMBER
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N63-16318	13-20	NO REPORT NUMBER
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N63-16322	13-17	ASD-TDR-63-132
N63-16323	13-27	NO REPORT NUMBER
N63-16324	13-26	NO REPORT NUMBER
N63-16325	13-11	NO REPORT NUMBER
N63-16326	13-20	NO REPORT NUMBER
N63-16327	13-30	AFSWC-TDR-62-83
N63-16328	13-23	AFOSR-2759
N63-16329	13-28	SB-62-2
N63-16330	13-09	RADC-TDR-62-221
N63-16331	13-30	MND-P-3019-I
N63-16332	13-13	ASD-TDR-62-650
N63-16333	13-17	NO REPORT NUMBER
N63-16334	13-17	NA62H-46
N63-16335	13-28	LMSC-2-08-62-2
N63-16336	13-30	MND-P-2953
N63-16337	13-27	NO REPORT NUMBER
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N63-16339	13-14	AMRL-TDR-63-22
N63-16340	13-15	AFCRL-63-102
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N63-16342	14-23	AD-295727
N63-16343	14-23	NO REPORT NUMBER
N63-16344	14-15	W-J-63-610R12
N63-16345	14-18	SB-62-22, SUPPL. II
N63-16346	14-28	AEDC-TDR-63-92
N63-16347	14-21	AFCRL-63-463
N63-16348	14-11	NO REPORT NUMBER
N63-16349	14-11	ILL-10-P
N63-16350	14-03	E-79-4
N63-16351	14-20	D1-82-0208
N63-16352	14-16	USNRDL-TR-636
N63-16353	14-29	R62SD153
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N63-16357	14-10	NO REPORT NUMBER
N63-16358	14-02	NO REPORT NUMBER
N63-16359	14-21	AFCRL-63-299
N63-16360	14-20	ASD-TDR-63-182
N63-16361	14-20	RE-164
N63-16362	14-27	MND-2903 /VOL. 1/
N63-16363	14-07	NO REPORT NUMBER
N63-16364	14-12	NO REPORT NUMBER
N63-16365	14-25	NO REPORT NUMBER
N63-16366	14-21	NO REPORT NUMBER
N63-16367	14-08	NO REPORT NUMBER
N63-16368	14-20	NO REPORT NUMBER
N63-16369	14-16	NO REPORT NUMBER
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N63-16371	14-08	AFCRL-63-101
N63-16372	14-02	ARL-63-16
N63-16373	14-15	NO REPORT NUMBER
N63-16374	14-26	NRB-202203
N63-16375	14-11	DVL-210
N63-16376	14-23	BNL-774/T-291/
N63-16377	14-14	HUNRRO-RR-11
N63-16378	14-15	NYO-10261
N63-16379	14-25	NO REPORT NUMBER
N63-16380	14-21	AFCRL-63-443
N63-16381	14-08	NO REPORT NUMBER
N63-16382	14-21	LMSC-A003108 A
N63-16383	14-23	CE/WES-MP-2-524
N63-16384	14-24	MRC-311
N63-16385	14-20	HASL-126
N63-16386	14-32	JPL-TR-32-383
N63-16387	14-07	BMI-1625
N63-16388	14-24	NRL-5915
N63-16389	14-09	AFCRL-63-70
N63-16390	14-20	NO REPORT NUMBER
N63-16391	14-24	NASA-TN-D-1654
N63-16392	14-09	NASA-TN-D-1759
N63-16393	14-11	SUDAER-150
N63-16394	14-10	SUDAER-151
N63-16395	14-20	ESL-FR-165
N63-16396	14-33	NO REPORT NUMBER
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N63-16400	14-30	ASD-TDR-63-233
N63-16401	14-20	RADC-TDR-63-181
N63-16402	14-10	ASD-TDR-63-154
N63-16403	14-02	ASD-TDR-63-131
N63-16404	14-23	ASD-TDR-62-978
N63-16405	14-26	RMD-5502-F
N63-16406	14-11	R-403-PR
N63-16407	14-11	BRN-4-P
N63-16408	14-11	BRN-5-P
N63-16409	14-16	AMRL-TDR-62-99/11/
N63-16410	14-17	FA-R-1645
N63-16411	14-17	HW-76300
N63-16412	14-25	ASD-TDR-62-838
N63-16413	14-06	NO REPORT NUMBER
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N63-16415	14-03	ARC-CP-642
N63-16416	14-24	NO REPORT NUMBER
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N63-16418	14-15	GA-3676
N63-16419	14-23	HW-76128
N63-16420	14-19	DFL-204
N63-16421	14-16	SB-62-56
N63-16422	14-06	AMRL-TDR-62-149
N63-16423	14-20	JPL-TR-32-429
N63-16424	14-30	NO REPORT NUMBER
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N63-16428	14-03	NASA-TN-D-1809
N63-16429	14-29	NASA-TN-D-1847
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N63-16436	14-24	RADC-TDR-63-135
N63-16437	14-08	RADC-TDR-62-586
N63-16438	14-34	AFCRL-63-64
N63-16439	14-20	NASA-TM-X-50016
N63-16440	14-27	JPL-TR-32-194
N63-16441	14-29	JPL-TR-32-256
N63-16442	14-33	JPL-TR-32-261

N63-16443	14-26	JPL-TR-32-348
N63-16444	14-29	JPL-TR-32-400
N63-16445	14-30	JPL-TR-32-431, PT. I
N63-16446	14-24	NO REPORT NUMBER
N63-16447	14-23	BMI-1614/DEL./
N63-16448	14-08	RE-TR-62-6
N63-16449	14-25	W-J-63-612R12
N63-16450	14-24	DL-82-0225
N63-16451	14-25	NO REPORT NUMBER
N63-16452	14-20	NAPD-TM-356
N63-16453	14-15	K-1444
N63-16454	14-21	AFCRL-63-400
N63-16455	14-18	ASD-TDR-63-232
N63-16456	14-04	AGARDOGRAPH-67
N63-16457	14-24	PIBMRI-1113-63
N63-16458	14-12	AFCRL-63-604
N63-16459	14-28	NYO-10265
N63-16460	14-15	ARL-63-47
N63-16461	14-12	NBS-TN-40-9
N63-16462	14-12	NBS-TN-40-10
N63-16463	14-09	AFCRL-63-85
N63-16464	14-15	AFCRL-63-249
N63-16465	14-11	NWL-1853
N63-16466	14-16	ER-12923
N63-16467	14-24	D1-82-0170
N63-16468	14-15	NATT-162
N63-16469	14-15	NYO-2667
N63-16470	14-28	NO REPORT NUMBER
N63-16471	14-04	TCREC-TR-63-100
N63-16472	14-14	NRL-TDR-62-66
N63-16473	14-20	NO REPORT NUMBER
N63-16474	14-24	TDR-169/3230-12/TR-3
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N63-16476	14-19	FRL-TN-101
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N63-16482	14-05	TN-63-203
N63-16483	14-13	ANL-6675
N63-16484	14-19	NO REPORT NUMBER
N63-16485	14-08	AFCRL-63-46
N63-16486	14-07	ASD-TDR-62-1040
N63-16487	14-13	ARL-63-25
N63-16488	14-23	BM-RI-6240
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N63-16490	14-15	NO REPORT NUMBER
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N63-16492		ACC. NO. NOT USED
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N63-16494	14-11	NO REPORT NUMBER
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N63-16496	14-17	ASD-TDR-63-160
N63-16497	14-12	SP-206
N63-16498	14-28	NO REPORT NUMBER
N63-16499	14-25	ORNL-3432
N63-16500	14-25	ORNL-3433
N63-16501	14-25	UCRL-10629
N63-16502	14-23	UCRL-10677
N63-16503	14-24	UCRL-10687
N63-16504	14-23	UCRL-10702
N63-16505	14-24	UCRL-10705
N63-16506	14-11	UCRL-10717
N63-16507	14-20	UCRL-10744
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N63-16509	14-24	AEET/CD/10
N63-16510	14-09	PIBMRI-1149-63
N63-16511	14-11	AVCO-EVERETT RES. REPT.-138
N63-16512	14-24	ARL-63-35
N63-16513	14-29	AFCRL-63-459
N63-16514	14-08	AF-103
N63-16515	14-09	AF-104
N63-16516	14-08	SB-62-18
N63-16517	14-15	IDO-16857
N63-16518	14-12	RM-3596
N63-16519	14-24	RM-3603-ARPA
N63-16520	14-25	ARDD-2099-13
N63-16521	14-07	PA-TM-1186
N63-16522	14-09	LA-2853
N63-16523	14-24	NO REPORT NUMBER
N63-16524	14-17	CCL-143
N63-16525	14-13	RAD-TM-63-7
N63-16526	14-09	SB-62-46
N63-16527	14-16	CARI-62-1
N63-16528	14-20	NRC-320
N63-16529	14-20	NRC-322
N63-16530	14-08	AEDC-TDR-63-75
N63-16531	14-07	NO REPORT NUMBER
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N63-16534	14-21	HW-75445
N63-16535	14-32	PIBMRI-1079-62
N63-16536	14-13	BSD-TDR-62-347
N63-16537	14-18	ARDD-2581-2
N63-16538	14-07	UCRL-10624
N63-16539	14-23	AEET-ANAL.-6
N63-16540	14-17	T&AM-238
N63-16541	14-20	CF-2986
N63-16542	14-11	NO REPORT NUMBER
N63-16543	14-20	ORNL-3430
N63-16544	14-23	ORNL-3443
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N63-16547	14-11	AEDC-TDR-63-127
N63-16548	14-24	ER-6047
N63-16549	14-11	TR-1098
N63-16550	14-13	AFOSR-3207
N63-16551	14-29	RM-3275-PR
N63-16552	14-20	NRC-345
N63-16553	14-19	ONR-TR-RLT-59
N63-16554	14-08	RADC-TDR-63-67
N63-16555	14-23	TN-91
N63-16556	14-11	HLM-987
N63-16557	14-16	AMRL-TDR-63-19
N63-16558	14-29	JPL-EPD-22
N63-16559	14-23	NAA-SR-8085
N63-16560	14-25	EUR-248.F
N63-16561	14-20	UCRL-10734
N63-16562	14-33	NASA-CR-50178
N63-16563	14-32	NASA FACTS-B-4-63
N63-16564	14-18	UCRL-7210
N63-16565	14-24	UCRL-7253
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N63-16582	14-16	NO REPORT NUMBER
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N63-16587	14-27	WAL-TR-371.9/5
N63-16588	14-24	A62SD94
N63-16589	14-20	NRC-390
N63-16590	14-20	NRC-393
N63-16591	14-20	NRC-397
N63-16592	14-20	PIBMRI-1131-63
N63-16593	14-02	NO REPORT NUMBER
N63-16594	14-20	NRC-398
N63-16595	14-24	SSD-TDR-62-127, VOL. IV
N63-16596	14-23	GEMP-22A
N63-16597	14-15	CRRD-1109
N63-16598	14-18	AFCRL-63-36
N63-16599	14-24	AFCRL-62-976
N63-16600	14-32	NASA FACTS-C-62
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N63-16664	14-05	NO REPORT NUMBER
N63-16665	14-29	NO REPORT NUMBER
N63-16666	14-20	MRC-392
N63-16667	14-18	WADD-TR-60-184, PT. IV
N63-16668	14-06	NDLC-564
N63-16669	14-17	NASA-TN-D-1729
N63-16670	14-28	NASA-CR-50045
N63-16671	14-30	MTP-P&VE-F-62-11
N63-16672	14-12	NASA-X-615-62-132
N63-16673	14-26	MTP-P&VE-P-62-6
N63-16674	14-29	NO REPORT NUMBER
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N63-16676	14-27	CTR-00-270
N63-16677	14-33	FZK-163
N63-16678	14-28	NASA-CR-50033
N63-16679	14-24	NASA-CR-50044
N63-16680	14-07	AMP-107
N63-16681	14-23	NO REPORT NUMBER
N63-16682	14-11	GD/C-62-354A
N63-16683	14-11	ASRL-TR-1008
N63-16684	14-29	NO REPORT NUMBER
N63-16685	14-23	NBS-R-270
N63-16686	14-23	AFCRL-63-115
N63-16687	14-23	NBS-R-269
N63-16688	14-13	NASA-TN-D-1726
N63-16689	14-12	CR-52
N63-16690	14-33	ASD-TR-61-713, PT. II
N63-16691	14-24	NUP-63-4
N63-16692	14-15	NUP-63-7
N63-16693	14-29	NO REPORT NUMBER
N63-16694	14-33	AROD-2571-3
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N63-16696	14-32	NASA-EP-7
N63-16697	14-29	NO REPORT NUMBER
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N63-16699	14-29	NO REPORT NUMBER
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N63-16701	14-29	NASA FACTS-A-62
N63-16702	14-29	NO REPORT NUMBER
N63-16703	14-29	NO REPORT NUMBER
N63-16704	14-18	NO REPORT NUMBER
N63-16705	14-18	NO REPORT NUMBER
N63-16706		ACC. NO. NOT USED
N63-16707	14-28	NASA-TM-X-50021
N63-16708	14-28	NASA-TM-X-50023
N63-16709	14-29	NASA-TM-X-50022
N63-16710	14-20	NASA-TM-X-50020
N63-16711	14-24	NASA-TN-D-1734
N63-16712	14-07	ASD-TDR-63-273
N63-16713	14-18	NO REPORT NUMBER
N63-16714	14-18	ASD-TDR-62-930
N63-16715	14-14	NAVTRADEVCEN-783-1
N63-16716	14-20	BRL-TN-1491
N63-16717	14-20	NASA-TM-X-50025
N63-16718	14-12	NASA-TM-X-50031
N63-16719	14-11	NASA-CR-50014
N63-16720	14-07	NASA-CR-50011
N63-16721	14-23	NASA-CR-50027
N63-16722	14-11	NASA-CR-50049
N63-16723	14-20	NASA-TM-X-50000
N63-16724	14-10	EPD-29, REV. 1
N63-16725	14-23	AFCRL-63-118
N63-16726	14-29	NASA-CR-50131
N63-16727	14-18	T&AM-244
N63-16728	14-28	NASA-CR-50153
N63-16729	14-24	AFCRL-63-491
N63-16730	14-20	NO REPORT NUMBER
N63-16731	14-29	NASA-CR-50117
N63-16732	14-11	NASA-CR-50159
N63-16733	14-07	NASA-CR-50124
N63-16734	14-24	NO REPORT NUMBER
N63-16735	14-18	AFCRL-63-451
N63-16736	14-06	AFCRL-63-452
N63-16737	14-09	NAVTRADEVCEN-1188-1
N63-16738	14-07	AFCRL-63-444
N63-16739	14-07	AFCRL-63-97
N63-16740	14-33	WADD-TR-61-42, PT. III
N63-16741	14-29	NO REPORT NUMBER
N63-16742	14-06	ASD-TDR-63-191
N63-16743		ACC. NO. NOT USED
N63-16744	14-12	NBS-TN-178
N63-16745	14-11	NASA-TN-D-1810
N63-16746	14-11	NASA-TN-D-1983
N63-16747	14-03	TM-348-33.6-11
N63-16748	14-32	NO REPORT NUMBER
N63-16749	14-09	LNF-62/111
N63-16750	14-01	NO REPORT NUMBER
N63-16751	14-33	NO REPORT NUMBER
N63-16752	14-10	NO REPORT NUMBER
N63-16753	14-09	NO REPORT NUMBER
N63-16754	14-02	NO REPORT NUMBER
N63-16755	14-02	NO REPORT NUMBER
N63-16756	14-32	NO REPORT NUMBER
N63-16757	14-17	NO REPORT NUMBER
N63-16758	14-10	NO REPORT NUMBER
N63-16759	14-15	NO REPORT NUMBER
N63-16760	14-10	NO REPORT NUMBER
N63-16761	14-02	NO REPORT NUMBER
N63-16762	14-10	NO REPORT NUMBER
N63-16763	14-10	NO REPORT NUMBER
N63-16764	14-34	NO REPORT NUMBER
N63-16765	14-10	NO REPORT NUMBER
N63-16766	14-10	NO REPORT NUMBER
N63-16767	14-04	NO REPORT NUMBER
N63-16768	14-34	NO REPORT NUMBER
N63-16769	14-10	NO REPORT NUMBER
N63-16770	14-30	NO REPORT NUMBER
N63-16771	14-10	NO REPORT NUMBER
N63-16772	14-20	NO REPORT NUMBER
N63-16773	14-17	NO REPORT NUMBER
N63-16774	14-10	NO REPORT NUMBER
N63-16775		ACC. NO. NOT USED
N63-16776	14-06	SWC-TDR-62-101
N63-16777	14-29	SWC-TDR-63-25
N63-16778	14-24	NYO-10263
N63-16779	14-12	GA-4221
N63-16780	14-28	AEDC-TDR-63-90
N63-16781	14-24	ILL-11-P
N63-16782	14-20	SCR-607
N63-16783	14-18	NO REPORT NUMBER
N63-16784	14-33	BMI-1628
N63-16785	14-10	NO REPORT NUMBER
N63-16786	14-19	NO REPORT NUMBER
N63-16787	14-11	NO REPORT NUMBER
N63-16788	14-17	RAS-TM-63-2
N63-16789	14-08	RADC-TDR-63-142
N63-16790	14-24	R-46
N63-16791	14-20	MRC-396
N63-16792	14-13	AROD-1954-10
N63-16793	14-28	VL-2244-6-0
N63-16794	14-30	LMSC-A372006
N63-16795	14-18	Q-B1933-5
N63-16796	14-18	BM-RI-6241
N63-16797	14-03	NPL-R&M-3311
N63-16798	14-23	AFCRL-63-35
N63-16799		ACC. NO. NOT USED
N63-16800	14-30	NO REPORT NUMBER
N63-16801	14-01	NASA-TN-X-50077
N63-16802	14-29	NO REPORT NUMBER

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N63-16805	14-29	.....	NO REPORT NUMBER
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N63-16807	14-29	.....	NO REPORT NUMBER
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N63-16814	14-11	.....	NO REPORT NUMBER
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N63-16817	14-11	.....	NO REPORT NUMBER
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N63-16819	14-11	.....	NO REPORT NUMBER
N63-16820	14-34	.....	NO REPORT NUMBER
N63-16821	14-02	.....	NO REPORT NUMBER
N63-16822	14-02	.....	NO REPORT NUMBER
N63-16823	14-04	.....	NO REPORT NUMBER
N63-16824	14-23	.....	LNF-63/3
N63-16825	14-20	.....	EUR-257.E
N63-16826	14-22	.....	NO REPORT NUMBER
N63-16827	14-15	.....	ASRMDD-TM-63-31
N63-16828	14-02	.....	ARL/A-123
N63-16829	14-12	.....	AFCRL-63-294
N63-16830	14-20	.....	NO REPORT NUMBER
N63-16831	.....		ACC. NO. NOT USED
N63-16832	14-06	.....	PIBMRI-1101-62
N63-16833	14-20	.....	AD-277582
N63-16834	14-29	.....	NO REPORT NUMBER
N63-16835	14-18	.....	SRI-21
N63-16836	14-18	.....	SRI-22
N63-16837	14-16	.....	NAS-NRC-1086
N63-16838	14-18	.....	NO REPORT NUMBER
N63-16839	14-29	.....	R-48
N63-16840	14-09	.....	NBS-MONOGRAPH-46
N63-16841	14-11	.....	ARAP-44
N63-16842	14-11	.....	D1-82-0205
N63-16843	14-08	.....	RG-TR-62-3
N63-16844	14-10	.....	NO REPORT NUMBER
N63-16845	14-18	.....	LA-2886
N63-16846	14-23	.....	NO REPORT NUMBER
N63-16847	14-23	.....	NO REPORT NUMBER
N63-16848	14-12	.....	FTD-TT-62-1029/1&2&4
N63-16849	14-16	.....	FMI-63-1
N63-16850	14-23	.....	HASL-133
N63-16851	14-09	.....	RAE-TRANS-1001
N63-16852	14-25	.....	AROD-2099-12
N63-16853	14-15	.....	ASD-TR-61-487
N63-16854	14-01	.....	NO REPORT NUMBER
N63-16855	14-22	.....	NO REPORT NUMBER
N63-16856	14-15	.....	NO REPORT NUMBER
N63-16857	14-10	.....	NO REPORT NUMBER
N63-16858	14-15	.....	NO REPORT NUMBER
N63-16859	14-22	.....	NO REPORT NUMBER
N63-16860	14-22	.....	NO REPORT NUMBER
N63-16861	14-22	.....	NO REPORT NUMBER
N63-16862	14-15	.....	NO REPORT NUMBER
N63-16863	14-06	.....	NO REPORT NUMBER
N63-16864	14-22	.....	NO REPORT NUMBER
N63-16865	14-22	.....	NO REPORT NUMBER
N63-16866	14-09	.....	AFCRL-63-59
N63-16867	14-09	.....	AFCRL-63-84
N63-16868	14-16	.....	AAL-TDR-62-14
N63-16869	14-23	.....	R-167
N63-16870	14-26	.....	QR-7414-7
N63-16871	14-17	.....	NO REPORT NUMBER
N63-16872	14-17	.....	NO REPORT NUMBER
N63-16873	.....		ACC. NO. NOT USED
N63-16874	14-15	.....	C-14
N63-16875	14-24	.....	AFESD-TDR-62-249
N63-16876	.....		ACC. NO. NOT USED
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N63-16879	14-24	.....	HE-150-211
N63-16880	14-33	.....	NASA-TN-D-1537
N63-16881	14-11	.....	ARC-CP-626
N63-16882	14-04	.....	ARC-CP-647
N63-16883	.....		ACC. NO. NOT USED
N63-16884	14-25	.....	NASA-CR-50194
N63-16885	14-18	.....	GA-3859
N63-16886	14-15		PLASMA RES. LAB. TECH. REPT.7
N63-16887	14-05	.....	CAL-RM-1655-M-4
N63-16888	14-09	.....	NASA-CR-50113
N63-16889	14-18	.....	ASD-TDR-62-876
N63-16890	14-13	.....	PIBAL-612
N63-16891	14-13	.....	PIBAL-437
N63-16892	14-11	.....	PIBAL-325
N63-16893	14-15	.....	NO REPORT NUMBER
N63-16894	14-09	.....	NO REPORT NUMBER
N63-16895	14-11	.....	ARC-CP-625
N63-16896	14-29	.....	AFSWC-TDR-63-11
N63-16897	14-04	.....	AFSWC-TDR-63-21
N63-16898	14-20	.....	NO REPORT NUMBER
N63-16899	14-18	.....	IDO-14606
N63-16900	14-08	.....	NBS-TN-175
N63-16901	14-18	.....	ASD-TR-7-678/IV/
N63-16902	14-23	.....	LMSC-6-90-63-23
N63-16903	14-11	.....	TIL/T-5325
N63-16904	14-18	.....	ASD-TDR-63-360
N63-16905	14-18	.....	ASD-TDR-63-297
N63-16906	.....		ACC. NO. NOT USED
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N63-16908	.....		ACC. NO. NOT USED
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N63-16912	.....		ACC. NO. NOT USED
N63-16913	.....		ACC. NO. NOT USED
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N63-16916	14-11	.....	NOLTR-62-143
N63-16917	14-24	.....	AD-283026
N63-16918	14-24	.....	AD-276705
N63-16919	14-08	.....	RADC-TDR-63-124
N63-16920	14-24	.....	RADC-TDR-62-260
N63-16921	14-12	.....	NO REPORT NUMBER
N63-16922	14-06	.....	MND-2866-1
N63-16923	14-11	.....	CAL-AF-1412-A-2
N63-16924	14-13	.....	NOLTR-62-72
N63-16925	14-18	.....	ASD-TDR-63-309, PT. I
N63-16926	14-11	.....	FTD-TT-62-1057/1&2&4
N63-16927	14-23	.....	NEL-1121
N63-16928	14-11	.....	D1-82-0168
N63-16929	14-16	.....	FRL-TN-90
N63-16930	14-24	.....	D1-82-0173
N63-16931	14-07	.....	AN-625
N63-16932	14-09	.....	AFCRL-63-129
N63-16933	14-11	.....	FTD-TT-62-1145/1&2&4
N63-16934	14-06	.....	NAA-SR-7432
N63-16935	14-24	.....	GA-PHYS-62-2
N63-16936	14-09	.....	NO REPORT NUMBER
N63-16937	14-29	.....	CA-4291-0065
N63-16938	14-34	.....	RAC-1160
N63-16939	14-06	.....	NAA-SR-7368
N63-16940	14-11	.....	NPL/AERO/1004
N63-16941	14-09	.....	NO REPORT NUMBER
N63-16942	14-04	.....	BRL-1187
N63-16943	14-11	.....	PIBAL-469
N63-16944	14-09	.....	RADC-TDR-62-498
N63-16945	14-10	.....	MIL-STD-810 /USAF/
N63-16946	14-23	.....	LNF-63/4
N63-16947	14-20	.....	AROD-1517-52
N63-16948	14-11	.....	TG-230-T330
N63-16949	14-08	.....	NO REPORT NUMBER
N63-16950	14-08	.....	NO REPORT NUMBER
N63-16951	14-23	.....	WAPD-TM-333
N63-16952	14-12	.....	AFCRL-63-436
N63-16953	14-07	.....	NO REPORT NUMBER
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N63-16955	14-11	.....	ORNL-3422
N63-16956	14-26	.....	NO REPORT NUMBER
N63-16957	14-13	.....	RAL-RR-189
N63-16958	14-24	.....	MATT-171
N63-16959	14-24	.....	MATT-187
N63-16960	14-25	.....	MATT-188
N63-16961	14-12	.....	CEX-58.4.8
N63-16962	14-08	.....	PIBMRI-1148-63
N63-16963	14-34	.....	TIL/T-5374
N63-16964	14-18	.....	ASC-TR-7-827/III/
N63-16965	14-18	.....	ASC-TR-7-827/IV/
N63-16966	14-18	.....	ASC-TR-7-827/V/
N63-16967	14-18	.....	ASC-TR-7-827/VI/
N63-16968	14-18	.....	ASC-TR-7-827/VII/
N63-16969	14-11	.....	NO REPORT NUMBER
N63-16970	14-34	.....	T&AM-246
N63-16971	14-33	.....	T&AM-247
N63-16972	14-32	.....	NO REPORT NUMBER
N63-16973	14-17	.....	RADC-RAS-TM-63-3
N63-16974	14-18	.....	NO REPORT NUMBER
N63-16975	.....		ACC. NO. NOT USED
N63-16976	14-07	.....	AFCRL-63-22/X
N63-16977	14-07	.....	AFCRL-63-456
N63-16978	14-23	.....	BM-IC-8166
N63-16979	14-13	.....	AROD-2000-7
N63-16980	14-15	.....	NADC-EL-N6208
N63-16981	14-25	.....	NO REPORT NUMBER
N63-16982	14-23	.....	MS-10039-M

N63-16983	15-11	NO REPORT NUMBER
N63-16984		ACC. NO. NOT USED
N63-16985	15-29	NASA-TN-D-1416
N63-16986	15-34	NASA-TN-D-1570
N63-16987	15-28	NASA-TN-D-1644
N63-16988	15-23	NASA-TN-D-1709
N63-16989	15-15	NASA-TN-D-1727
N63-16990	15-11	NASA-TN-D-1761
N63-16991	15-30	NASA-TN-D-1811
N63-16992	15-32	NASA-TN-D-1816
N63-16993	15-29	NASA-TN-D-1833
N63-16994	15-12	NASA-TN-D-1848
N63-16995	15-27	NASA-TN-D-1732
N63-16996	15-23	ASD-TDR-63-306
N63-16997	15-20	RM-3579-PR
N63-16998	15-17	MRC-1299
N63-16999	15-18	ASD-TDR-62-509, VOL. II
N63-17000	15-18	ASD-TDR-62-869
N63-17001	15-15	NO REPORT NUMBER
N63-17002	15-12	RM-63TMP-2
N63-17003	15-29	JPL-SPS-37-20, VOL. VI
N63-17004		ACC. NO. NOT USED
N63-17005		ACC. NO. NOT USED
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N63-17007		ACC. NO. NOT USED
N63-17008		ACC. NO. NOT USED
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N63-17011	15-07	NO REPORT NUMBER
N63-17012	15-19	AID-62-77
N63-17013	15-11	ONR-438
N63-17014	15-33	RM-3164-PR
N63-17015	15-19	RM-3018-PR
N63-17016	15-27	NO REPORT NUMBER
N63-17017	15-25	AROD-1579-12
N63-17018	15-18	NO REPORT NUMBER
N63-17019	15-07	AFSWC-TDR-62-12
N63-17020	15-11	MIT FLUID DYN. RES. LAB.-63-2
N63-17021	15-33	ASD-TDR-63-252
N63-17022	15-18	WAL-TR-823.3/1
N63-17023	15-23	UCRL-10620
N63-17024	15-19	UCRL-10724
N63-17025	15-07	RAE-TRANS-1028
N63-17026	15-27	NO REPORT NUMBER
N63-17027	15-32	NO REPORT NUMBER
N63-17028	15-15	NASA-CR-50143
N63-17029	15-11	SB-62-55
N63-17030	15-32	NO REPORT NUMBER
N63-17031	15-32	NO REPORT NUMBER
N63-17032	15-12	NO REPORT NUMBER
N63-17033	15-19	NRL-5752
N63-17034	15-19	LC/B/-417
N63-17035	15-09	SUDAER-147
N63-17036	15-16	NO REPORT NUMBER
N63-17037	15-16	NO REPORT NUMBER
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N63-17043	15-16	NO REPORT NUMBER
N63-17044	15-16	NO REPORT NUMBER
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N63-17046	15-16	NO REPORT NUMBER
N63-17047	15-16	NO REPORT NUMBER
N63-17048	15-01	NO REPORT NUMBER
N63-17049	15-29	NO REPORT NUMBER
N63-17050	15-16	NO REPORT NUMBER
N63-17051	15-08	NO REPORT NUMBER
N63-17052	15-32	NO REPORT NUMBER
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N63-17054	15-25	AFCRL-62-561
N63-17055	15-24	AD-284753
N63-17056	15-24	NO REPORT NUMBER
N63-17057	15-24	NO REPORT NUMBER
N63-17058	15-24	NO REPORT NUMBER
N63-17059	15-24	NO REPORT NUMBER
N63-17060	15-07	ASD-TDR-63-113
N63-17061	15-33	SURI-TR-834-6
N63-17062	15-09	W-J-63-610R12-1
N63-17063	15-14	NADC-MA-6219
N63-17064	15-09	EID-61
N63-17065	15-20	USCEC-97-101
N63-17066	15-19	NAVWEPS-8030
N63-17067	15-20	NO REPORT NUMBER
N63-17068	15-15	AEDC-TDR-63-113
N63-17069	15-20	NO REPORT NUMBER
N63-17070	15-18	ORNL-3438
N63-17071	15-20	UCRL-7294
N63-17072	15-17	RR-63-4
N63-17073	15-23	AFCRL-63-481
N63-17074	15-12	AFCRL-63-484
N63-17075	15-03	FFA-93
N63-17076	15-18	R63SD6
N63-17077	15-17	GA-2318
N63-17078	15-20	EID-59
N63-17079	15-09	TR-1119
N63-17080	15-24	AFCRL-63-121
N63-17081	15-20	NWL-1844
N63-17082	15-15	AFCRL-63-450
N63-17083	15-25	AFCRL-62-949/SUPPL./
N63-17084	15-25	NO REPORT NUMBER
N63-17085	15-09	AFCRL-63-453
N63-17086	15-08	SB-62-17
N63-17087	15-17	SB-62-25
N63-17088	15-06	SB-62-26
N63-17089	15-06	SB-62-30
N63-17090	15-20	R-163
N63-17091	15-20	R-162
N63-17092	15-16	AAL-TDR-62-17
N63-17093	15-16	AAL-TDR-62-54
N63-17094	15-16	AAL-TDR-62-55
N63-17095	15-16	AAL-TDR-62-60
N63-17096	15-16	AAL-TDR-62-61
N63-17097	15-16	AAL-TDR-62-62
N63-17098	15-17	AAL-TN-63-1
N63-17099	15-11	DIT-125-4
N63-17100	15-20	CM-1027
N63-17101	15-24	RM-3527-NASA
N63-17102	15-06	TCREC-TR-62-93
N63-17103	15-20	WAPD-TM-367
N63-17104	15-28	NASA-TM-X-50017
N63-17105	15-29	NASA-TN-D-1669
N63-17106	15-12	NO REPORT NUMBER
N63-17107	15-23	NO REPORT NUMBER
N63-17108	15-05	NO REPORT NUMBER
N63-17109	15-15	NO REPORT NUMBER
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N63-17111	15-23	NO REPORT NUMBER
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N63-17115	15-28	NO REPORT NUMBER
N63-17116	15-25	RADC-TDR-63-149
N63-17117	15-17	WADD-TR-61-91, PT. III
N63-17118	15-20	RADC-TDR-63-136
N63-17119	15-20	NASA-TN-D-1756
N63-17120	15-04	ARC-R&M-3313
N63-17121	15-04	ARC-R&M-3296
N63-17122	15-20	ARC-R&M-3322
N63-17123	15-07	NASA-CR-50300
N63-17124	15-20	RIAS-TR-63-8
N63-17125	15-11	NASA-CR-50258
N63-17126	15-25	LNF-63/22
N63-17127	15-25	LMSC-6-90-63-20
N63-17128	15-10	NOTS-1938, REV. 1
N63-17129	15-25	AROD-2334-3
N63-17130	15-25	NO REPORT NUMBER
N63-17131	15-18	ARF-B765-28
N63-17132	15-12	AFCRL-63-475
N63-17133	15-29	NASA-CR-50148
N63-17134	15-12	NASA-CR-50176
N63-17135	15-11	R-271
N63-17136	15-23	R-226
N63-17137	15-12	NASA-CR-50190
N63-17138	15-17	R-201
N63-17139	15-21	NASA-CR-50172
N63-17140	15-09	NASA-CR-50175
N63-17141	15-12	NASA-TN-D-1762
N63-17142	15-20	NRL-5828
N63-17143	15-20	NASA-TN-D-1760
N63-17144	15-02	ARC-CP-629
N63-17145	15-20	ARC-CP-614
N63-17146	15-17	ARC-CP-620
N63-17147	15-25	NO REPORT NUMBER
N63-17148	15-06	NO REPORT NUMBER
N63-17149	15-15	R-274
N63-17150	15-01	NO REPORT NUMBER
N63-17151	15-23	AROD-3764-1
N63-17152	15-29	NASA-CR-50016
N63-17153	15-12	NASA-CR-50181
N63-17154	15-18	NO REPORT NUMBER
N63-17155	15-12	NO REPORT NUMBER
N63-17156	15-18	UCRL-10708
N63-17157	15-12	NASA-CR-50299
N63-17158	15-11	R-276
N63-17159	15-04	NO REPORT NUMBER
N63-17160	15-24	NO REPORT NUMBER
N63-17161	15-12	NASA-CR-50152
N63-17162	15-08	NO REPORT NUMBER

N63-17163		ACC. NO. NOT USED
N63-17164		ACC. NO. NOT USED
N63-17165	15-04	NASA-TM-X-519
N63-17166	15-27	JPL-TR-32-352
N63-17167	15-32	NO REPORT NUMBER
N63-17168	15-28	NO REPORT NUMBER
N63-17169	15-19	R-229
N63-17170	15-05	NASA-CR-50142
N63-17171	15-28	NO REPORT NUMBER
N63-17172	15-12	NO REPORT NUMBER
N63-17173	15-11	MIT-TR-408
N63-17174	15-09	ILL-8-P
N63-17175	15-20	SAD-103
N63-17176	15-20	R63SD12
N63-17177	15-33	ARPA-E6
N63-17178	15-20	CRRP-1147
N63-17179	15-30	CARDE-TN-1559/63
N63-17180	15-11	RAD-TM-63-33
N63-17181	15-33	ASD-TDR-62-1030
N63-17182	15-34	NO REPORT NUMBER
N63-17183	15-33	IAS PAPER-63-26
N63-17184	15-27	NO REPORT NUMBER
N63-17185	15-27	NO REPORT NUMBER
N63-17186	15-23	UCRL-10720
N63-17187	15-07	RAI-303
N63-17188	15-11	AVCO-EVERETT RES. REPT.-145
N63-17189	15-13	AVCO-EVERETT RES. REPT.-143
N63-17190	15-12	NO REPORT NUMBER
N63-17191	15-23	NRL-5944
N63-17192	15-13	NO REPORT NUMBER
N63-17193	15-16	AAL-TDR-62-24
N63-17194	15-25	EUR-222.F
N63-17195	15-10	AFCRL-63-202
N63-17196	15-23	KAPL-2000-20
N63-17197	15-15	LAMS-2883
N63-17198	15-33	RAE-R-STRUCT-267
N63-17199	15-33	NASA-CR-50326
N63-17200	15-28	NASA-CR-50284
N63-17201	15-20	NASA-CR-50332
N63-17202	15-20	NASA-CR-50243
N63-17203	15-32	NASA-TM-X-50104
N63-17204	15-07	NASA-CR-50229
N63-17205	15-18	NASA-CR-50210
N63-17206	15-16	NASA-CR-50205
N63-17207	15-17	NASA-CR-50311
N63-17208	15-29	NASA-TN-D-1984
N63-17209	15-15	ARC-REM-3301
N63-17210	15-11	NSL-63-21
N63-17211	15-32	SAO SPECIAL REPT.-115
N63-17212	15-23	NASA-CR-50132
N63-17213	15-18	NASA-CR-50094
N63-17214	15-29	JPL-TM-33-114
N63-17215	15-07	NASA-CR-50200
N63-17216	15-29	NASA-CR-50149
N63-17217	15-20	NASA-CR-50215
N63-17218	15-18	NASA-CR-50154
N63-17219	15-07	U-2062
N63-17220	15-17	NASA-CR-50341
N63-17221	15-33	NASA-CR-50365
N63-17222		ACC. NO. NOT USED
N63-17223	15-17	NASA-CR-50342
N63-17224	15-24	RM-3671-PR
N63-17225	15-23	NASA-CR-50041
N63-17226	15-29	JPL-TM-33-111
N63-17227	15-27	NO REPORT NUMBER
N63-17228	15-20	MH-MPG-1529-TR4
N63-17229		ACC. NO. NOT USED
N63-17230	15-23	NASA-CR-50350
N63-17231	15-20	NASA-CR-50348
N63-17232	15-20	BRL-MEMO-1467
N63-17233	15-15	ARL/SM-276
N63-17234	15-10	ERDA-24
N63-17235	15-07	ASD-TDR-63-290
N63-17236	15-29	NO REPORT NUMBER
N63-17237	15-01	EUR-194.D
N63-17238	15-15	NO REPORT NUMBER
N63-17239	15-33	NO REPORT NUMBER
N63-17240	15-23	UCRL-10563
N63-17241	15-20	ARAP-49, PT. 1
N63-17242	15-20	ARAP-49, PT. II
N63-17243	15-20	ARAP-48
N63-17244	15-05	STL-TRANS-71
N63-17245	15-17	NAA-SR-7455
N63-17246	15-33	TTRI-56
N63-17247	15-20	TTRI-58
N63-17248	15-32	NO REPORT NUMBER
N63-17249	15-23	ORNL-3425
N63-17250	15-13	NAA-SR-7875
N63-17251	15-18	TID-7620 /PT. 1/
N63-17252	15-01	NO REPORT NUMBER
N63-17253	15-02	NASA-TM-X-169
N63-17254	15-02	NASA-TM-X-249
N63-17255	15-02	NASA-TM-X-240
N63-17256	15-20	EID-64
N63-17257	15-23	GA-3542
N63-17258	15-27	NO REPORT NUMBER
N63-17259	15-13	TID-17792
N63-17260	15-09	NO REPORT NUMBER
N63-17261	15-20	LAMS-2856
N63-17262	15-29	NO REPORT NUMBER
N63-17263	15-18	NO REPORT NUMBER
N63-17264	15-18	NO REPORT NUMBER
N63-17265	15-16	UCLA-512
N63-17266	15-01	NASA-CR-50104
N63-17267	15-17	NO REPORT NUMBER
N63-17268	15-17	NO REPORT NUMBER
N63-17269	15-17	NO REPORT NUMBER
N63-17270	15-17	NO REPORT NUMBER
N63-17271	15-17	NO REPORT NUMBER
N63-17272	15-33	NO REPORT NUMBER
N63-17273	15-33	NO REPORT NUMBER
N63-17274	15-33	NO REPORT NUMBER
N63-17275	15-14	NO REPORT NUMBER
N63-17276	15-14	NO REPORT NUMBER
N63-17277	15-16	NO REPORT NUMBER
N63-17278	15-20	NO REPORT NUMBER
N63-17279	15-09	NO REPORT NUMBER
N63-17280	15-06	NO REPORT NUMBER
N63-17281	15-09	NO REPORT NUMBER
N63-17282	15-31	NO REPORT NUMBER
N63-17283	15-20	NO REPORT NUMBER
N63-17284	15-20	NO REPORT NUMBER
N63-17285	15-08	NO REPORT NUMBER
N63-17286	15-17	NO REPORT NUMBER
N63-17287	15-09	NO REPORT NUMBER
N63-17288	15-17	NO REPORT NUMBER
N63-17289	15-01	NO REPORT NUMBER
N63-17290	15-06	NO REPORT NUMBER
N63-17291	15-06	NO REPORT NUMBER
N63-17292	15-32	NO REPORT NUMBER
N63-17293	15-17	NO REPORT NUMBER
N63-17294	15-10	NO REPORT NUMBER
N63-17295	15-17	NO REPORT NUMBER
N63-17296	15-17	NO REPORT NUMBER
N63-17297	15-06	NO REPORT NUMBER
N63-17298	15-09	NO REPORT NUMBER
N63-17299	15-20	NO REPORT NUMBER
N63-17300	15-20	NO REPORT NUMBER
N63-17301	15-02	NASA-TN-D-1793
N63-17302	15-02	NASA-TN-D-1823
N63-17303	15-33	NO REPORT NUMBER
N63-17304	15-18	ASD-TDR-62-732
N63-17305	15-01	AML-6646
N63-17306	15-16	NO REPORT NUMBER
N63-17307	15-23	NO REPORT NUMBER
N63-17308	15-23	NO REPORT NUMBER
N63-17309	15-23	NO REPORT NUMBER
N63-17310	15-21	NO REPORT NUMBER
N63-17311	15-12	GCA-TR-62-11-N
N63-17312	15-28	GCA-TR-62-14-N
N63-17313	15-07	GCA-TR-62-15-N
N63-17314	15-05	GCA-TR-63-1-N
N63-17315	15-23	GCA-TR-63-2-N
N63-17316	15-07	GCA-TR-63-3-N
N63-17317	15-12	GCA-TR-63-4-N
N63-17318	15-12	GCA-TR-63-11-N
N63-17319	15-01	GCA-TR-63-12-N
N63-17320	15-07	GCA-TR-63-13-N
N63-17321	15-23	DASA-1357/IV/
N63-17322	15-23	NO REPORT NUMBER
N63-17323	15-23	NO REPORT NUMBER
N63-17324	15-23	NO REPORT NUMBER
N63-17325	15-23	NO REPORT NUMBER
N63-17326	15-23	NO REPORT NUMBER
N63-17327	15-23	NO REPORT NUMBER
N63-17328	15-15	NADC-MA-6119
N63-17329	15-16	NADC-MA-6303
N63-17330	15-28	CR-48
N63-17331	15-11	TDR-169/3230-12/TN-7
N63-17332	15-18	IDO-28605
N63-17333	15-24	PIBMRI-1151-63
N63-17334	15-23	NO REPORT NUMBER
N63-17335	15-21	NASA-CR-50193
N63-17336	15-08	JPL-TM-33-85
N63-17337	15-07	NASA-CR-50118
N63-17338	15-23	NASA-CR-50211
N63-17339	15-24	NASA-CR-50239
N63-17340	15-18	NASA-TN-D-1785
N63-17341	15-05	NASA-CR-50327
N63-17342	15-20	MTP-P&VE-F-62-12

N63-17343	.....	ACC. NO. NOT USED
N63-17344	15-20	NYO-10426
N63-17345	15-05	NO REPORT NUMBER
N63-17346	15-16	AAL-TDR-62-13
N63-17347	15-16	AAL-TDR-62-15
N63-17348	15-16	AAL-TDR-62-16
N63-17349	15-16	AAL-TDR-62-18
N63-17350	15-25	NO REPORT NUMBER
N63-17351	15-09	ONR-14
N63-17352	15-10	NO REPORT NUMBER
N63-17353	15-17	NO REPORT NUMBER
N63-17354	15-17	NO REPORT NUMBER
N63-17355	15-09	NO REPORT NUMBER
N63-17356	15-09	NO REPORT NUMBER
N63-17357	15-09	NO REPORT NUMBER
N63-17358	15-09	NO REPORT NUMBER
N63-17359	15-09	NO REPORT NUMBER
N63-17360	15-09	NO REPORT NUMBER
N63-17361	15-09	NO REPORT NUMBER
N63-17362	15-10	NO REPORT NUMBER
N63-17363	15-20	NO REPORT NUMBER
N63-17364	15-17	NO REPORT NUMBER
N63-17365	15-06	NO REPORT NUMBER
N63-17366	15-09	NO REPORT NUMBER
N63-17367	15-17	NO REPORT NUMBER
N63-17368	15-09	NO REPORT NUMBER
N63-17369	15-17	NO REPORT NUMBER
N63-17370	15-17	NO REPORT NUMBER
N63-17371	15-09	NO REPORT NUMBER
N63-17372	15-09	NO REPORT NUMBER
N63-17373	15-09	NO REPORT NUMBER
N63-17374	15-09	NO REPORT NUMBER
N63-17375	15-09	NO REPORT NUMBER
N63-17376	15-09	NO REPORT NUMBER
N63-17377	15-23	NO REPORT NUMBER
N63-17378	15-09	W-J-63-615R6
N63-17379	15-07	TID-7641
N63-17380	15-08	AFCRL-62-975
N63-17381	15-10	AERE-M-963
N63-17382	15-11	NO REPORT NUMBER
N63-17383	15-25	NO REPORT NUMBER
N63-17384	.....	ACC. NO. NOT USED
N63-17385	15-20	AROD-2934-9
N63-17386	15-07	NLCO-881
N63-17387	15-04	NO REPORT NUMBER
N63-17388	15-25	AFCRL-63-113
N63-17389	15-26	NO REPORT NUMBER
N63-17390	15-26	NO REPORT NUMBER
N63-17391	15-26	NO REPORT NUMBER
N63-17392	15-32	NO REPORT NUMBER
N63-17393	15-18	EUR-86.D
N63-17394	15-14	NO REPORT NUMBER
N63-17395	15-24	ARL-63-54
N63-17396	15-23	AID-B-63-84
N63-17397	15-23	AID-P-63-85
N63-17398	15-24	MATT-192
N63-17399	15-07	RM-3677-PR
N63-17400	15-02	D1-82-0242
N63-17401	15-32	NO REPORT NUMBER
N63-17402	15-32	NO REPORT NUMBER
N63-17403	15-32	NO REPORT NUMBER
N63-17404	15-32	NO REPORT NUMBER
N63-17405	15-32	NO REPORT NUMBER
N63-17406	15-30	NO REPORT NUMBER
N63-17407	15-10	NO REPORT NUMBER
N63-17408	15-10	NO REPORT NUMBER
N63-17409	15-32	NO REPORT NUMBER
N63-17410	15-30	NO REPORT NUMBER
N63-17411	15-30	NO REPORT NUMBER
N63-17412	15-14	NO REPORT NUMBER
N63-17413	15-10	NO REPORT NUMBER
N63-17414	15-10	NO REPORT NUMBER
N63-17415	15-10	NO REPORT NUMBER
N63-17416	15-14	NO REPORT NUMBER
N63-17417	15-04	NO REPORT NUMBER
N63-17418	15-30	NO REPORT NUMBER
N63-17419	15-09	RADC-TDR-63-194
N63-17420	15-17	NA-27-0001
N63-17421	15-09	RADC-TDR-63-146
N63-17422	15-15	AFCRL-63-415
N63-17423	15-12	AFCRL-63-245
N63-17424	15-08	NO REPORT NUMBER
N63-17425	15-01	R-RD-1539-TR1
N63-17426	15-07	UNC-5028
N63-17427	15-18	GEAP-4139
N63-17428	15-07	GA-3349
N63-17429	15-18	NASA-TM-X-884
N63-17430	15-26	NO REPORT NUMBER
N63-17431	15-07	WADD-TR-60-646, PT. II
N63-17432	15-11	NO REPORT NUMBER
N63-17433	15-06	SB-62-51
N63-17434	15-16	SAM-TDR-63-1
N63-17435	15-15	SAM-TDR-63-21
N63-17436	15-18	GA-3585
N63-17437	15-12	AFCRL-63-488
N63-17438	15-22	NO REPORT NUMBER
N63-17439	15-15	AFCRL-63-433
N63-17440	15-07	BMI-1624/DEL./
N63-17441	15-20	BRL-1194
N63-17442	15-16	ORNL-3115
N63-17443	15-06	NAA-SR-7144
N63-17444	15-15	MATT-186
N63-17445	15-23	BAW-2168
N63-17446	15-21	MSL-10, SUPPL.
N63-17447	15-20	SB-63-13
N63-17448	15-09	EID-66
N63-17449	15-08	SAD-110
N63-17450	15-03	NASA-TM-X-273
N63-17451	15-20	NO REPORT NUMBER
N63-17452	15-20	RM-2997-PR
N63-17453	15-07	BM-RI-6248
N63-17454	15-07	BM-RI-6251
N63-17455	15-05	NASA-TM-X-814
N63-17456	15-01	HW-76559
N63-17457	15-11	GDA63-0240
N63-17458	15-01	NO REPORT NUMBER
N63-17459	15-07	HASL-134
N63-17460	15-18	GEAP-3999
N63-17461	15-07	UNC-5048
N63-17462	15-18	ARL-63-37
N63-17463	15-11	AVCO-EVERETT RES. REPT.-152
N63-17464	15-02	NASA-TM-X-239
N63-17465	15-04	NASA-TM-X-268
N63-17466	15-06	NACA-RM-E57J29
N63-17467	15-15	CERN-63-10
N63-17468	15-25	CERN-63-11
N63-17469	15-15	CERN-63-17
N63-17470	15-15	ARL-63-58
N63-17471	15-23	ARL-63-63
N63-17472	15-33	T&AM-248
N63-17473	15-06	FA-R-1641
N63-17474	15-24	AFCRL-63-123
N63-17475	15-07	NO REPORT NUMBER
N63-17476	15-07	HW-77291
N63-17477	15-23	NAA-SR-7541
N63-17478	15-11	NYO-10427
N63-17479	15-07	NRL-5932
N63-17480	16-07	NO REPORT NUMBER
N63-17481	16-24	MATT-191
N63-17482	16-07	Q-B2089-1
N63-17483	16-16	NASA-CR-50351
N63-17484	16-12	NASA-CR-50330
N63-17485	16-20	NASA-CR-50241
N63-17486	16-23	RM-3089-PR
N63-17487	16-09	AFCRL-63-138
N63-17488	16-11	UCRL-10696
N63-17489	.....	ACC. NO. NOT USED
N63-17490	16-10	AMRL-TDR-63-15
N63-17491	16-16	AMRL-TDR-63-30
N63-17492	16-16	AMRL-TDR-63-31
N63-17493	16-33	UTIA-84
N63-17494	16-09	NSF-3
N63-17495	16-25	AFCRL-63-74
N63-17496	16-23	EUR-231.D
N63-17497	16-06	SID-63-39
N63-17498	16-04	TRECOM-TR-63-18
N63-17499	16-04	HSR-RR-62/8-MK-X
N63-17500	16-08	R63ELS-6
N63-17501	16-10	NO REPORT NUMBER
N63-17502	16-12	LAMONT GEOL. OBS. CONTR.-606
N63-17503	16-01	NO REPORT NUMBER
N63-17504	16-32	NASA-TN-D-1771
N63-17505	16-08	IER SER. 60, ISSUE 472
N63-17506	16-17	AFCRL-63-78
N63-17507	16-20	AFCRL-63-132
N63-17508	16-16	DASA-1325
N63-17509	16-05	AD-294683
N63-17510	16-09	NO REPORT NUMBER
N63-17511	16-26	E104-63
N63-17512	16-11	PR-104-P
N63-17513	16-25	AROD-2916-1
N63-17514	16-13	NASA-TN-D-1656
N63-17515	16-07	KAPL-2257
N63-17516	16-24	NO REPORT NUMBER
N63-17517	16-27	NO REPORT NUMBER
N63-17518	16-32	NO REPORT NUMBER
N63-17519	16-32	NO REPORT NUMBER
N63-17520	16-22	NO REPORT NUMBER
N63-17521	16-08	NO REPORT NUMBER
N63-17522	16-01	R-452.23-63

N63-17523	16-02	ARC-R&M-3306
N63-17524	16-11	DEL-13-P
N63-17525	16-20	NO REPORT NUMBER
N63-17526	16-25	ONR-TR-49
N63-17527	16-21	ERDA-29
N63-17528	16-15	SSD-TDR-63-146
N63-17529	16-11	SSD-TDR-63-72
N63-17530	16-07	GER-11012
N63-17531	16-20	RM-2553-PR
N63-17532	16-07	RIA-63-1242
N63-17533	16-04	NO REPORT NUMBER
N63-17534	16-26	NO REPORT NUMBER
N63-17535	16-11	AFOSR-4662
N63-17536	16-11	NO REPORT NUMBER
N63-17537	16-09	UCRL-6886, REV. 1
N63-17538	16-20	ORNL-3447
N63-17539	16-11	PR-105-P
N63-17540	16-05	AFCRL-63-648
N63-17541	16-12	FFIT-E-2
N63-17542	16-26	NO REPORT NUMBER
N63-17543	16-08	ORA-63-8
N63-17544	16-07	NASA-TN-D-1885
N63-17545	16-02	NASA-TN D-1947
N63-17546	16-07	RAI-320
N63-17547	16-32	NASA-TN-D-1750
N63-17548	16-07	NASA-TN-D-1808
N63-17549	16-27	NASA-TN-D-1681
N63-17550	16-05	NASA-TN-D-1844
N63-17551	16-11	NASA-TR R-138
N63-17552	16-20	NASA-TN-D-1085
N63-17553	16-24	MATT-185
N63-17554	16-33	GEMP-23A
N63-17555	16-16	SAM-TDR-62-151
N63-17556	16-18	CW-R&DL-31
N63-17557	16-02	UTIA-TN-63
N63-17558	16-24	UTIA-TN-52
N63-17559	16-17	EUR-251.F
N63-17560	16-17	EUR-252.F
N63-17561	16-18	EUR-272.F
N63-17562	16-18	BM-RI-5701
N63-17563	16-20	ASD-TDR-62-860
N63-17564	16-07	MIT-TR-179
N63-17565		ACC. NO. NOT USED
N63-17566	16-12	AFCRL-62-1136
N63-17567	16-20	SLAC-15
N63-17568	16-04	TCREC-TR-62-33
N63-17569	16-18	UCRL-7284
N63-17570	16-20	SCR-222A
N63-17571	16-20	ARAP-6-R
N63-17572	16-20	ARL-31, PT. II
N63-17573	16-08	SEL-63-041
N63-17574	16-21	AFCRL-63-496
N63-17575	16-11	ARL/A-204
N63-17576	16-20	ARAP-7-P-1
N63-17577	16-20	ARAP-7-P-2
N63-17578	16-03	ARA WIND TUNNEL NOTE-48
N63-17579	16-20	MSL-11
N63-17580	16-05	NO REPORT NUMBER
N63-17581	16-18	NO REPORT NUMBER
N63-17582	16-23	SRI-TR-75
N63-17583	16-16	AMRL-TDR-63-32
N63-17584	16-14	AMRL-TDR-63-26
N63-17585	16-14	AMRL-TDR-63-33
N63-17586	16-22	NO REPORT NUMBER
N63-17587	16-18	OMIC-182
N63-17588	16-29	AFCRL-63-649
N63-17589	16-08	AFCRL-63-60
N63-17590	16-24	MATT-196
N63-17591	16-15	NRL-5938
N63-17592	16-02	RF-TR-63-14
N63-17593	16-08	ARL-63-48
N63-17594	16-16	NO REPORT NUMBER
N63-17595	16-11	JPC-348
N63-17596	16-01	FFA-94
N63-17597	16-12	AFCRL-63-659
N63-17598	16-26	NO REPORT NUMBER
N63-17599	16-11	NO REPORT NUMBER
N63-17600	16-03	UTIA-90
N63-17601	16-11	BRL-1202
N63-17602	16-23	R63SD3
N63-17603	16-07	NO REPORT NUMBER
N63-17604	16-33	TRECOM-TR-63-9
N63-17605	16-25	ONR-TR-51
N63-17606	16-34	AFFTC-TR-60-43, VOL. IV
N63-17607	16-16	NO REPORT NUMBER
N63-17608	16-25	AFCRL-63-65
N63-17609	16-25	AF-105
N63-17610	16-17	SPS-949
N63-17611	16-23	IDO-16890
N63-17612	16-08	NO REPORT NUMBER
N63-17613	16-16	USNRDL-TR-644
N63-17614	16-25	TID-17912
N63-17615	16-07	AFCRL-63-610
N63-17616	16-02	DVL-278
N63-17617	16-25	UCRL-7267
N63-17618	16-15	IDO-16852
N63-17619	16-23	UCRL-10752, SUPPL.
N63-17620	16-01	NO REPORT NUMBER
N63-17621	16-18	BM-RI-6232
N63-17622	16-12	AFCRL-63-654
N63-17623	16-25	ML-1028
N63-17624	16-12	PSU-SR-190
N63-17625	16-24	NOLTR-62-186
N63-17626	16-33	UTIA-23
N63-17627	16-09	RADC-TDR-63-128
N63-17628	16-23	PA-TR-3070
N63-17629	16-20	AFCRL-63-95
N63-17630	16-20	AFCRL-63-105
N63-17631	16-01	NO REPORT NUMBER
N63-17632	16-08	NO REPORT NUMBER
N63-17633	16-12	AFCRL-63-296
N63-17634	16-14	ESD-TDR-63-134
N63-17635	16-24	NSF-TR-4
N63-17636	16-19	SB-62-27
N63-17637	16-33	SB-62-37
N63-17638	16-24	SB-62-20
N63-17639	16-30	SB-61-68
N63-17640	16-15	SB-62-34
N63-17641	16-23	SB-62-44
N63-17642	16-10	SC-4905/RR/
N63-17643	16-10	EID-12
N63-17644	16-08	AFCRL-63-119
N63-17645	16-12	NO REPORT NUMBER
N63-17646	16-12	RM-3642-PR
N63-17647	16-23	NWL-1854
N63-17648	16-07	AAL-TDR-62-40
N63-17649	16-16	AAL-TDR-62-19
N63-17650	16-16	AAL-TDR-62-30
N63-17651	16-20	BRL-MEMO-1460
N63-17652	16-07	NO REPORT NUMBER
N63-17653	16-16	WRU-110
N63-17654	16-17	NO REPORT NUMBER
N63-17655	16-28	R-63-8, PT. I
N63-17656	16-29	NO REPORT NUMBER
N63-17657	16-34	NO REPORT NUMBER
N63-17658	16-18	NO REPORT NUMBER
N63-17659	16-24	NO REPORT NUMBER
N63-17660	16-31	NO REPORT NUMBER
N63-17661	16-20	NO REPORT NUMBER
N63-17662	16-11	NO REPORT NUMBER
N63-17663	16-33	NO REPORT NUMBER
N63-17664	16-05	R-143-PR
N63-17665	16-20	RN-154
N63-17666	16-16	AMRL-TDR-63-20
N63-17667	16-18	ASD-TDR-62-888
N63-17668	16-10	AGARDOGRAPH-66, AMENDED
N63-17669	16-09	NO REPORT NUMBER
N63-17670	16-34	ASRMDS-TM-62-4
N63-17671	16-33	RE-163
N63-17672	16-18	ASD-TDR-62-354, PT. II
N63-17673	16-20	RN-153
N63-17674	16-16	AMRL-TDR-63-28
N63-17675	16-24	NO REPORT NUMBER
N63-17676	16-13	AFCRL-62-640
N63-17677	16-11	TDR-169/3230-12/TN-3
N63-17678	16-24	TDR-169/3230-12/TN-2
N63-17679	16-11	FLD-9
N63-17680	16-33	BRL-1179
N63-17681	16-24	ATN-63/9227/-1
N63-17682	16-13	ASD-TR-61-187, PT. II
N63-17683	16-17	MTI-62TR34
N63-17684	16-17	MTI-241/1-63/
N63-17685	16-11	AFCRL-63-127
N63-17686	16-20	AEDC-TDR-62-61
N63-17687	16-16	NO REPORT NUMBER
N63-17688	16-20	PIBMRI-1158-63
N63-17689	16-18	WADD-TR-60-889, PT. II
N63-17690	16-23	BM-RI-6245
N63-17691	16-07	NO REPORT NUMBER
N63-17692	16-33	BRL-MEMO-1461
N63-17693	16-10	FIC-TIR-63-2001
N63-17694	16-21	AFCRL-63-250
N63-17695	16-18	NAA-SR-6246
N63-17696	16-23	NO REPORT NUMBER
N63-17697	16-29	NO REPORT NUMBER
N63-17698	16-20	NASA-CR-50235
N63-17699	16-20	NO REPORT NUMBER
N63-17700	16-15	NO REPORT NUMBER
N63-17701	16-16	AAL-TDR-62-6
N63-17702	16-25	GEMP-200

N63-17703	16-28	IGY SOLAR ACT. REPT. SER.-17A
N63-17704	16-11	SC-4777/RR/
N63-17705	16-07	UCRL-10706
N63-17706	16-32	NO REPORT NUMBER
N63-17707	16-18	NO REPORT NUMBER
N63-17708		ACC. NO. NOT USED
N63-17709	16-20	NO REPORT NUMBER
N63-17710	16-12	NO REPORT NUMBER
N63-17711	16-20	RADC-TDR-62-499
N63-17712	16-33	SURI-TR-834-5
N63-17713	16-08	TR-364
N63-17714	16-07	BM-RI-6249
N63-17715	16-01	REIC-MEMO-24
N63-17716	16-10	AID-P-63-79
N63-17717	16-07	ONR-TR-52
N63-17718	16-15	NO REPORT NUMBER
N63-17719	16-05	NO REPORT NUMBER
N63-17720	16-15	AFCRL-63-635
N63-17721	16-33	HRG-286
N63-17722	16-12	RM-63TMP-3
N63-17723	16-07	PNE-225P
N63-17724	16-20	NO REPORT NUMBER
N63-17725	16-07	NO REPORT NUMBER
N63-17726	16-20	DIT-125-3
N63-17727	16-11	DRA-63-9
N63-17728	16-06	NASA-CR-50204
N63-17729	16-16	NASA-CR-50206
N63-17730	16-07	NASA-CR-50226
N63-17731	16-23	TN-76
N63-17732	16-16	NO REPORT NUMBER
N63-17733	16-29	NO REPORT NUMBER
N63-17734	16-30	NO REPORT NUMBER
N63-17735	16-08	NO REPORT NUMBER
N63-17736	16-15	GEMP-77
N63-17737	16-16	SAM-TDR-63-8
N63-17738	16-20	NO REPORT NUMBER
N63-17739	16-28	SUI-63-5
N63-17740	16-18	NO REPORT NUMBER
N63-17741	16-12	NO REPORT NUMBER
N63-17742	16-24	NO REPORT NUMBER
N63-17743	16-32	NO REPORT NUMBER
N63-17744	16-12	NO REPORT NUMBER
N63-17745	16-12	NO REPORT NUMBER
N63-17746	16-18	T&AM-245
N63-17747	16-18	NO REPORT NUMBER
N63-17748	16-08	AFCRL-62-932
N63-17749	16-15	NO REPORT NUMBER
N63-17750	16-12	NO REPORT NUMBER
N63-17751	16-10	DTMB-1690
N63-17752	16-21	AFCRL-63-413
N63-17753	16-29	SB-62-15
N63-17754		ACC. NO. NOT USED
N63-17755	16-21	NO REPORT NUMBER
N63-17756	16-11	AEDC-TDR-63-143
N63-17757	16-12	NO REPORT NUMBER
N63-17758	16-32	NO REPORT NUMBER
N63-17759	16-01	NO REPORT NUMBER
N63-17760	16-10	HSA-85
N63-17761	16-11	BRL-1196
N63-17762	16-14	ESD-TDR-63-343
N63-17763	16-20	NO REPORT NUMBER
N63-17764	16-11	AGARD-399
N63-17765	16-24	R63SD43
N63-17766	16-29	R63SD30
N63-17767	16-20	RM-3611-ARPA
N63-17768	16-25	EGG-B-2462
N63-17769	16-25	TID-18636
N63-17770	16-20	AGARDOGRAPH-44
N63-17771	16-15	ORNL-3442
N63-17772	16-23	EUR-122.E
N63-17773	16-23	BNL-400, VOL. I
N63-17774	16-11	NO REPORT NUMBER
N63-17775	16-11	ARL-63-73
N63-17776	16-23	NO REPORT NUMBER
N63-17777	16-23	NO REPORT NUMBER
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N63-17780	16-23	NO REPORT NUMBER
N63-17781	16-23	NO REPORT NUMBER
N63-17782	16-23	NO REPORT NUMBER
N63-17783	16-21	AFCRL-63-435
N63-17784	16-21	NO REPORT NUMBER
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N63-17786	16-21	NO REPORT NUMBER
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N63-17789	16-21	NO REPORT NUMBER
N63-17790	16-21	NO REPORT NUMBER
N63-17791	16-21	NO REPORT NUMBER
N63-17792	16-05	NASA-CR-50238
N63-17793	16-05	NO REPORT NUMBER
N63-17794	16-05	NO REPORT NUMBER
N63-17795	16-33	AIAA PAPER-63-284
N63-17796	16-05	NO REPORT NUMBER
N63-17797	16-05	NO REPORT NUMBER
N63-17798	16-05	AIAA PAPER-63-253
N63-17799	16-20	AIAA PAPER-63-221
N63-17800	16-13	AIAA PAPER-63-241
N63-17801	16-31	AIAA PAPER-63-256
N63-17802	16-02	AIAA PAPER-63-174
N63-17803	16-29	AIAA PAPER-63-267
N63-17804	16-30	AIAA PAPER-63-260
N63-17805	16-06	AIAA PAPER-63-217
N63-17806	16-29	AIAA PAPER-63-255
N63-17807	16-27	AIAA PAPER-63-274
N63-17808	16-30	AIAA PAPER-63-271
N63-17809	16-29	NO REPORT NUMBER
N63-17810	16-18	AECL-1724
N63-17811	16-25	ARL-63-76
N63-17812	16-01	AIAA PAPER-63-285
N63-17813	16-27	AIAA PAPER-63-286
N63-17814	16-09	GA-4147
N63-17815	16-33	NO REPORT NUMBER
N63-17816	16-02	NO REPORT NUMBER
N63-17817	16-33	NO REPORT NUMBER
N63-17818	16-33	NO REPORT NUMBER
N63-17819	16-33	NO REPORT NUMBER
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N63-17822	16-33	NO REPORT NUMBER
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N63-17825	16-33	NO REPORT NUMBER
N63-17826	16-17	NO REPORT NUMBER
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N63-17837	16-07	NO REPORT NUMBER
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N63-17846	16-17	NO REPORT NUMBER
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N63-17850	16-17	NO REPORT NUMBER
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N63-17860	16-17	NO REPORT NUMBER
N63-17861	16-13	NO REPORT NUMBER
N63-17862	16-17	NO REPORT NUMBER
N63-17863	16-11	NO REPORT NUMBER
N63-17864	16-17	NO REPORT NUMBER
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N63-17866	16-17	NO REPORT NUMBER
N63-17867	16-17	NO REPORT NUMBER
N63-17868	16-17	NO REPORT NUMBER
N63-17869	16-13	NO REPORT NUMBER
N63-17870	16-17	NO REPORT NUMBER
N63-17871	16-07	NO REPORT NUMBER
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N63-17875	16-17	NO REPORT NUMBER
N63-17876	16-17	NO REPORT NUMBER
N63-17877	16-05	NO REPORT NUMBER
N63-17878	16-05	NO REPORT NUMBER
N63-17879	16-05	NO REPORT NUMBER
N63-17880	16-05	NO REPORT NUMBER
N63-17881	16-05	NO REPORT NUMBER
N63-17882	16-18	ASD-TDR-62-594, PT. II

N63-17883	16-33	ASD-TDR-62-834
N63-17884	16-20	BRL-1172
N63-17885	16-07	BM-RI-6001
N63-17886	16-07	BM-RI-5934
N63-17887	16-07	BM-RI-6080
N63-17888	16-18	BM-RI-5966
N63-17889	16-07	BM-RI-5972
N63-17890	16-07	BM-RI-5964
N63-17891	16-11	NO REPORT NUMBER
N63-17892	16-11	SSD-TDR-62-101
N63-17893	16-25	ASD-TDR-63-138
N63-17894	16-18	WADD-TR-60-893, PT. III
N63-17895	16-24	ARL-63-62
N63-17896	16-18	NO REPORT NUMBER
N63-17897	16-08	VL-2262-13-0
N63-17898	16-09	NO REPORT NUMBER
N63-17899	16-13	RAD-TM-63-40
N63-17900	16-18	NO REPORT NUMBER
N63-17901	16-24	AFCRL-63-642
N63-17902	16-15	AID-T-63-86
N63-17903	16-05	NO REPORT NUMBER
N63-17904	16-03	ARC-R&M-3315
N63-17905	16-07	AFCRL-63-606
N63-17906	16-02	NO REPORT NUMBER
N63-17907	16-23	NO REPORT NUMBER
N63-17908	16-23	USAELRDL-TR-2322
N63-17909	16-12	NASA-CR-50393
N63-17910	16-17	TR-1130
N63-17911		ACC. NO. NOT USED
N63-17912	16-21	NSSP-13
N63-17913	16-25	ASD-TDR-63-208
N63-17914	16-18	ANL-5674
N63-17915	16-33	FPL-07
N63-17916	16-07	NLCO-882
N63-17917	16-15	SAD-98
N63-17918		ACC. NO. NOT USED
N63-17919	16-24	AIAA PAPER-63-202
N63-17920	16-30	AIAA PAPER-63-237
N63-17921	16-27	AIAA PAPER-63-227
N63-17922	16-30	AIAA PAPER-63-176
N63-17923	16-06	AIAA PAPER-63-243
N63-17924	16-22	AIAA PAPER-63-222
N63-17925	16-13	AIAA PAPER-63-179
N63-17926	16-14	NASA-EP-11
N63-17927	16-05	AID-T-63-82
N63-17928	16-15	AFCRL-62-824
N63-17929	16-08	RADC-TDR-63-207
N63-17930	16-18	RIA-63-1835
N63-17931	16-06	NO REPORT NUMBER
N63-17932	16-06	ASD-TDR-62-1002
N63-17933	16-08	RADC-TDR-63-147
N63-17934	16-08	NO REPORT NUMBER
N63-17935	16-08	NO REPORT NUMBER
N63-17936	16-08	NO REPORT NUMBER
N63-17937	16-08	NO REPORT NUMBER
N63-17938	16-08	NO REPORT NUMBER
N63-17939	16-08	NO REPORT NUMBER
N63-17940	16-07	WADD-TR-60-782, PT. X
N63-17941	16-27	TRECOM-TR-63-12
N63-17942	16-23	NASA-CR-50448
N63-17943	16-17	ADR-09-06B-62
N63-17944	16-15	ADR-04-06-62.1
N63-17945	16-17	CAL-NM-1559-P-4
N63-17946	16-02	ARL-63-75
N63-17947	16-23	LA-2877
N63-17948	16-33	NO REPORT NUMBER
N63-17949	16-25	SCDC-3045
N63-17950	16-24	AMP-110
N63-17951	16-08	NEL-1165
N63-17952	16-14	NO REPORT NUMBER
N63-17953	16-24	NO REPORT NUMBER
N63-17954	16-14	NASA-CR-50221
N63-17955	16-25	NASA-CR-50399
N63-17956	16-18	WAL-TR-320.1/12
N63-17957	16-23	NO REPORT NUMBER
N63-17958	16-15	NASA-CR-50413
N63-17959	16-07	AE-103
N63-17960	16-23	IDO-28607
N63-17961	16-11	GA-4313
N63-17962	16-18	NAA-SR-8086
N63-17963	16-23	ARL-63-128
N63-17964	16-23	ARL-63-129
N63-17965	16-23	ARL-63-130
N63-17966	16-23	NASA-CR-50345
N63-17967	16-30	NO REPORT NUMBER
N63-17968	16-30	NO REPORT NUMBER
N63-17969	16-30	NO REPORT NUMBER
N63-17970	16-30	NO REPORT NUMBER
N63-17971	16-30	NO REPORT NUMBER
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N63-17973	16-30	NO REPORT NUMBER
N63-17974	16-30	NO REPORT NUMBER
N63-17975	16-18	NO REPORT NUMBER
N63-17976	16-07	AFCRL-63-608
N63-17977	16-07	NO REPORT NUMBER
N63-17978	16-07	NO REPORT NUMBER
N63-17979	16-07	NO REPORT NUMBER
N63-17980	16-07	NO REPORT NUMBER
N63-17981	16-07	NO REPORT NUMBER
N63-17982	16-07	NO REPORT NUMBER
N63-17983		ACC. NO. NOT USED
N63-17984	16-32	ARA-T-9219-1
N63-17985	16-16	ASD-TDR-62-685
N63-17986	16-27	NACA-RM-E51D30
N63-17987	16-04	NO REPORT NUMBER
N63-17988	16-02	NASA-TM-X-292
N63-17989	16-02	NASA-TM-X-361
N63-17990	16-02	NASA-TM-X-291
N63-17991	16-04	NASA-TM-X-232
N63-17992	16-30	NASA-TM-X-233
N63-17993	16-04	NASA-TM-X-334
N63-17994	16-30	NASA-TM-X-336
N63-17995	16-30	NASA-TM-X-350
N63-17996	16-12	SC-4903/RR/
N63-17997	16-19	NO REPORT NUMBER
N63-17998	16-21	AFCRL-63-623
N63-17999	16-01	BMI-1630
N63-18000	16-09	UCRL-10654
N63-18001	16-23	TID-18072
N63-18002	16-18	SB-62-69
N63-18003	16-27	UCRL-7145
N63-18004	16-09	MIT-TR-411
N63-18005	16-08	AFCRL-63-107
N63-18006	16-09	AFCRL-63-108
N63-18007	16-08	AFCRL-63-90
N63-18008	16-08	AFCRL-63-106
N63-18009	16-23	NO REPORT NUMBER
N63-18010	16-23	NAA-SR-7400
N63-18011	16-23	SB-63-6
N63-18012	16-16	MRL-TDR-62-61
N63-18013	16-18	AEC-TR-4506
N63-18014	16-07	IDO-14605
N63-18015	16-23	NASA-TN-D-1702
N63-18016	16-18	NO REPORT NUMBER
N63-18017	16-20	AROD-2800-11
N63-18018	16-12	AFCRL-63-440
N63-18019	16-03	ARL-63-81
N63-18020	16-23	GA-3125
N63-18021	16-23	ORNL-3421
N63-18022	16-24	RM-3364-PR
N63-18023	16-17	CAL-NM-1559-P-3
N63-18024	16-23	ARL-63-87
N63-18025	16-24	NUP-63-9
N63-18026	16-17	CAL-NM-1559-P-2
N63-18027	16-23	ANL-6739
N63-18028	16-18	ASD-TDR-62-1086
N63-18029	16-04	AMC-RG-TR-63-12
N63-18030	16-20	TCEA-TN-11
N63-18031	16-10	TCEA-TN-15
N63-18032	16-19	JPL-SR-353-1
N63-18033	16-19	NASA-CR-50338
N63-18034	16-01	NASA-CR-50306
N63-18035	16-29	NASA-CR-50331
N63-18036	16-08	NASA-CR-50334
N63-18037	16-26	NASA-CR-50313
N63-18038	16-30	NASA-TM-X-433
N63-18039	16-04	NASA-TM-X-448
N63-18040	16-30	NASA-TM-X-459
N63-18041	16-03	NACA-RM-L57D18A
N63-18042	16-33	NASA-MEMO-5-18-59L
N63-18043	16-18	NACA-RM-L58E14
N63-18044	16-04	NACA-RM-L58E12A
N63-18045	16-02	NACA-RM-E58E14
N63-18046	16-04	NACA-RM-L58E16
N63-18047	16-03	NACA-RM-H58E28
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N63-18050	16-12	NASA-CR-50116
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N63-18062	16-10	HSA-81

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N63-18064	16-03	ARC-REM-3305
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N63-18067	16-12	NO REPORT NUMBER
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N63-18075	16-25	C11-87
N63-18076	16-15	AFCRL-62-825
N63-18077	16-24	NSL-62-149-2
N63-18078	16-18	D6-7502-3
N63-18079	16-18	ASD-TDR-63-238
N63-18080	16-19	NO REPORT NUMBER
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N63-18088	16-18	ASD-TDR-63-361
N63-18089	16-16	AMRL-TDR-62-137
N63-18090	16-09	ESD-TDR-63-128
N63-18091	16-09	RADC-TDR-63-315
N63-18092	16-09	NO REPORT NUMBER
N63-18093	16-09	NO REPORT NUMBER
N63-18094	16-18	ADN-02-01-62.1
N63-18095	16-09	ADN-03-16-62.1
N63-18096	16-33	ADR-02-08-62.3
N63-18097	16-34	ADR-04-05-62.1
N63-18098	16-23	ADR-07-13-62.1
N63-18099	16-31	AFOSR/DRA-62-14
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N63-18101	16-07	NO REPORT NUMBER
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N63-18103	16-07	EXP-223/4
N63-18104	16-10	ASD-TDR-63-236
N63-18105	16-11	CAL-QM-1626-A-12/1/
N63-18106	16-10	ASD-TDR-63-230
N63-18107	16-11	ASD-TDR-62-792, VOL. I
N63-18108	16-18	NO REPORT NUMBER
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N63-18111	16-15	NO REPORT NUMBER
N63-18112	16-23	LA-2885
N63-18113	16-07	LA-2892
N63-18114	16-07	LAMS-2896
N63-18115	16-18	HW-74359, REV.
N63-18116	16-07	ASD-TDR-63-322
N63-18117	16-15	AEDC-TDR-63-134
N63-18118	16-02	BSD-TDR-63-78
N63-18119	16-29	DCAS-TDR-62-27
N63-18120	16-19	NRL-5945
N63-18121	16-17	E-1349
N63-18122	16-17	E-1222
N63-18123	16-34	SB-62-8
N63-18124	16-17	E-1312
N63-18125	16-12	WRE-TM-TRD-63
N63-18126	16-23	GA-3853
N63-18127	16-15	LA-2860
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N63-18132	16-30	NASA-TN-D-1928
N63-18133	16-18	NASA-TN-D-1944
N63-18134	16-22	NASA-TN-D-1950
N63-18135	16-03	NASA-TN-D-1954
N63-18136	16-03	NASA-TN-D-1959
N63-18137	16-13	NASA-TR-R-104
N63-18138	16-33	NO REPORT NUMBER
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N63-18147	16-23	NASA-CR-50343
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N63-18151	16-23	RADC-TDR-63-201
N63-18152	16-12	AMS-TR-46
N63-18153	16-21	AFCRL-63-434
N63-18154	16-21	ERDA-33
N63-18155	16-31	ASRMCM-TM-63-1
N63-18156	16-21	ERDA-38
N63-18157	16-21	ERDA-39
N63-18158	16-33	NASA-CR-50482
N63-18159	16-17	NASA-CR-50559
N63-18160	16-20	NASA-TN-D-1819
N63-18161	16-27	NASA-TN-D-1830
N63-18162	16-13	NASA-TN-D-1890
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N63-18164	16-19	NASA-CR-50447
N63-18165	16-12	NO REPORT NUMBER
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N63-18168	16-07	NASA-CR-50363
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N63-18170	16-09	RADC-TDR-63-228
N63-18171	16-20	AFCRL-63-130
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N63-18180	16-07	NAA-SR-7918
N63-18181	16-07	NO REPORT NUMBER
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N63-18185	16-23	NO REPORT NUMBER
N63-18186	16-18	ASD-TDR-62-479, PT. I
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N63-18188	16-30	SL-63-033
N63-18189	16-15	RADC-TDR-63-29
N63-18190	16-18	NO REPORT NUMBER
N63-18191	16-08	RADC-TDR-63-170
N63-18192	16-02	SSD-TDR-63-119
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N63-18194	16-29	NO REPORT NUMBER
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N63-18205	16-27	NASA-CR-50629
N63-18206	16-27	NASA-CR-50628
N63-18207	16-27	NASA-CR-50652
N63-18208	16-27	NASA-CR-50635
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N63-18210	16-30	NASA-TN-D-1922
N63-18211	16-33	NASA-TN-D-1935
N63-18212	17-02	SB-62-61
N63-18213	17-17	SB-63-49
N63-18214	17-15	AIAA PAPER-63-187
N63-18215	17-15	AIAA PAPER-63-211
N63-18216	17-31	AIAA PAPER-63-247
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N63-18235	17-04	NASA-TN-D-1925
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N63-18251 17-17 ..... DNIC-179
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N63-18270 17-15 ..... AFCRL-63-479
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N63-18272 17-23 ..... NASA-CR-50450
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N63-18278 17-05 ..... AFCRL-63-458
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N63-18378 17-23 ..... RADC-RAW-TM-63-6
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N63-18463	17-22	NASA-TN-D-1820
N63-18464	17-07	NASA-TN-D-1843
N63-18465		ACC. NO. NOT USED
N63-18466	17-23	NASA-TN-D-1889
N63-18467	17-02	NASA-TN-D-1929
N63-18468	17-02	NASA-TN-D-1931
N63-18469	17-22	NASA-TN-D-1938
N63-18470	17-13	NASA-TN-D-1975
N63-18471	17-11	NASA-TR-R-107
N63-18472	17-12	NASA-TR-R-120
N63-18473	17-10	LAS-TR-199-36
N63-18474	17-12	NO REPORT NUMBER
N63-18475	17-12	NO REPORT NUMBER
N63-18476	17-12	NO REPORT NUMBER
N63-18477	17-21	NO REPORT NUMBER
N63-18478	17-21	NO REPORT NUMBER
N63-18479	17-21	NO REPORT NUMBER
N63-18480	17-15	NO REPORT NUMBER
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N63-18482	17-21	NO REPORT NUMBER
N63-18483	17-08	NO REPORT NUMBER
N63-18484	17-25	NASA-TM-X-50141
N63-18485	17-03	NASA-CR-50625
N63-18486	17-12	NASA-TM-X-50142
N63-18487	17-10	NASA-CR-50563
N63-18488	17-27	NASA-CR-50584
N63-18489	17-07	NASA-CR-50605
N63-18490		ACC. NO. NOT USED
N63-18491	17-13	NASA-CR-50624
N63-18492	17-23	NASA-CR-50565
N63-18493	17-17	NASA-CR-50558
N63-18494	17-17	NASA-CR-50560
N63-18495	17-16	NASA-CR-50548
N63-18496	17-23	NASA-CR-50265
N63-18497	17-15	NASA-CR-50465
N63-18498	17-21	NASA-CR-50530
N63-18499	17-03	NASA-TN-D-1815
N63-18500	17-02	NASA-TN-D-1930
N63-18501	17-26	NASA-CR-50312
N63-18502	17-26	NO REPORT NUMBER
N63-18503	17-11	NO REPORT NUMBER
N63-18504	17-26	NO REPORT NUMBER
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N63-18508	17-01	NO REPORT NUMBER
N63-18509	17-07	NO REPORT NUMBER
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N63-18562	17-07	NO REPORT NUMBER
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N63-18580	17-26	NO REPORT NUMBER
N63-18581	17-06	NO REPORT NUMBER
N63-18582	17-11	NO REPORT NUMBER
N63-18583	17-26	NO REPORT NUMBER
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N63-18585	17-27	NO REPORT NUMBER
N63-18586	17-26	NO REPORT NUMBER
N63-18587	17-26	NO REPORT NUMBER
N63-18588	17-10	NO REPORT NUMBER
N63-18589	17-11	NO REPORT NUMBER
N63-18590	17-26	NO REPORT NUMBER
N63-18591	17-27	NO REPORT NUMBER
N63-18592	17-23	NO REPORT NUMBER
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N63-18595	17-26	NO REPORT NUMBER
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N63-18599	17-26	NO REPORT NUMBER
N63-18600	17-26	NO REPORT NUMBER
N63-18601	17-30	NASA-TM-X-50151
N63-18602	17-30	NO REPORT NUMBER

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N63-18622	17-30	.....	NO REPORT NUMBER
N63-18623	17-06	.....	KN-676-1/PR/
N63-18624	17-25	.....	SUDAER-152
N63-18625	17-09	.....	RADC-TDR-63-253
N63-18626	17-33	.....	D2-22437
N63-18627	17-18	.....	ASD-TDR-63-204
N63-18628	17-09	.....	RADC-TDR-63-172
N63-18629	17-30	.....	PLR-117
N63-18630	17-24	.....	PLR-119
N63-18631	17-18	.....	OMIC-MEMO-168
N63-18632	17-14	.....	AFCRL-63-141
N63-18633	17-22	.....	NO REPORT NUMBER
N63-18634	17-19	.....	ASD-TDR-62-225, PT. II
N63-18635	17-01	.....	RADC-TDR-63-184
N63-18636	17-16	.....	AMRL-TDR-63-36
N63-18637	17-18	.....	ASD-TDR-62-479, PT. II
N63-18638	17-15	.....	ARL-63-45
N63-18639	17-11	.....	R63SD23
N63-18640	17-09	.....	RADC-TDR-63-152
N63-18641	17-09	.....	NO REPORT NUMBER
N63-18642	17-23	.....	PA-TM-147-62
N63-18643	17-13	.....	NO REPORT NUMBER
N63-18644	17-13	.....	NO REPORT NUMBER
N63-18645	17-04	.....	NACA-RM-E53C18
N63-18646	17-09	.....	RADC-TDR-63-221
N63-18647	17-08	.....	RADC-TDR-63-192
N63-18648	17-05	.....	NASA-CR-50706
N63-18649	17-09	.....	RADC-TDR-63-333
N63-18650	17-19	.....	D2-35105
N63-18651	17-01	.....	NO REPORT NUMBER
N63-18652	17-24	.....	NASA-TN-D-1875
N63-18653	17-27	.....	NASA-TN-D-1411
N63-18654	17-15	.....	NASA-TN-D-1718
N63-18655	17-27	.....	NASA-TN-D-1733
N63-18656	17-32	.....	NASA-TN-D-1748
N63-18657	17-21	.....	NASA-TN-D-1755
N63-18658	17-04	.....	NASA-TN-D-1802
N63-18659	17-19	.....	NASA-TN-D-1814
N63-18660	17-23	.....	NASA-TN-D-1849
N63-18661	17-17	.....	NASA-TN-D-1853
N63-18662	17-07	.....	NASA-TN-D-1877
N63-18663	17-04	.....	NASA-TN-D-1891
N63-18664	17-32	.....	NASA-TN-D-1900
N63-18665	17-14	.....	NASA-TN-D-1924
N63-18666	17-03	.....	NASA-TN-D-1933
N63-18667	17-03	.....	NASA-TN-D-1937
N63-18668	17-33	.....	NASA-TN-D-2005
N63-18669	17-15	.....	NASA-TN-D-2007
N63-18670	17-12	.....	IGY GEN. REPT. SER.-18
N63-18671	17-04	.....	F-823-8
N63-18672	17-25	.....	TRG-134-QTR-4
N63-18673	17-16	.....	NO REPORT NUMBER
N63-18674	17-09	.....	RADC-TDR-63-225
N63-18675	17-08	.....	NO REPORT NUMBER
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N63-18677	17-16	.....	AAL-TDR-62-39
N63-18678	17-21	.....	NO REPORT NUMBER
N63-18679	17-21	.....	NO REPORT NUMBER
N63-18680	17-15	.....	ASD-TDR-63-288
N63-18681	17-12	.....	UAG-R135
N63-18682	17-10	.....	BM-RI-6009
N63-18683	17-21	.....	AFCRL-62-1135
N63-18684	17-18	.....	HW-77052
N63-18685	17-29	.....	NO REPORT NUMBER
N63-18686	17-11	.....	ASRL-TR-106-1
N63-18687	17-21	.....	ERDA-31
N63-18688	17-29	.....	NASA-TM-X-50186
N63-18689	17-29	.....	NO REPORT NUMBER
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N63-18699	17-20	.....	NO REPORT NUMBER
N63-18700	17-20	.....	NO REPORT NUMBER
N63-18701	17-09	.....	MDL-Q4
N63-18702	17-09	.....	NO REPORT NUMBER
N63-18703	17-09	.....	NO REPORT NUMBER
N63-18704	17-09	.....	NO REPORT NUMBER
N63-18705	17-09	.....	NO REPORT NUMBER
N63-18706	17-09	.....	NO REPORT NUMBER
N63-18707	17-09	.....	NO REPORT NUMBER
N63-18708	17-23	.....	NO REPORT NUMBER
N63-18709	17-25	.....	NO REPORT NUMBER
N63-18710	17-25	.....	NO REPORT NUMBER
N63-18711	17-25	.....	NO REPORT NUMBER
N63-18712	17-24	.....	NO REPORT NUMBER
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N63-18716	17-24	.....	NO REPORT NUMBER
N63-18717	17-02	.....	D2-22040
N63-18718	17-27	.....	TDR-930/2210-14/TR-1
N63-18719	17-18	.....	BM-RI-6256
N63-18720	17-02	.....	AGARD-398
N63-18721	17-33	.....	ASD-TN-61-117, PT. IV
N63-18722	17-12	.....	SSD-TDR-62-127, VOL. V
N63-18723	17-33	.....	AGARD-410
N63-18724	17-20	.....	ARDD-2056-13
N63-18725	17-14	.....	NO REPORT NUMBER
N63-18726	17-12	.....	AFCRL-63-617
N63-18727	17-11	.....	NO REPORT NUMBER
N63-18728	17-19	.....	NO REPORT NUMBER
N63-18729	17-16	.....	ARL-TDR-63-15
N63-18730	17-21	.....	EUR-276.I
N63-18731	17-28	.....	AEDC-TDR-63-118
N63-18732	17-17	.....	WAPD-245
N63-18733	17-15	.....	HW-77517
N63-18734	17-11	.....	AEDC-TDR-63-147
N63-18735	17-11	.....	NO REPORT NUMBER
N63-18736	17-12	.....	NO REPORT NUMBER
N63-18737	17-12	.....	R15
N63-18738	17-07	.....	NO REPORT NUMBER
N63-18739	17-13	.....	NO REPORT NUMBER
N63-18740	17-07	.....	USNRDL-TR-650
N63-18741	17-24	.....	NATT-177
N63-18742	17-13	.....	AEDC-TDR-63-102
N63-18743	17-24	.....	NATT-198
N63-18744	17-16	.....	ORINS-42
N63-18745	17-11	.....	CAL-BB-1657-S-1
N63-18746	.....	.....	ACC. NO. NOT USED
N63-18747	17-21	.....	NO REPORT NUMBER
N63-18748	17-27	.....	VITRO-2331-1-60
N63-18749	17-02	.....	AEDC-TDR-63-135
N63-18750	17-11	.....	D1-82-0239
N63-18751	17-13	.....	CAL-124
N63-18752	17-12	.....	NO REPORT NUMBER
N63-18753	17-12	.....	NO REPORT NUMBER
N63-18754	17-12	.....	NO REPORT NUMBER
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N63-18766	17-12	.....	NO REPORT NUMBER
N63-18767	17-12	.....	NO REPORT NUMBER
N63-18768	17-21	.....	NO REPORT NUMBER
N63-18769	17-25	.....	ARDD-2891-7
N63-18770	17-24	.....	NASA-TN-D-1778
N63-18771	17-33	.....	NASA-TN-D-1803
N63-18772	17-30	.....	NASA-TN-D-1934
N63-18773	17-18	.....	NASA-TN-D-1943
N63-18774	.....	.....	ACC. NO. NOT USED
N63-18775	17-28	.....	NO REPORT NUMBER
N63-18776	18-19	.....	NASA-TR-R-134
N63-18777	18-16	.....	AMRL-TDR-63-45
N63-18778	18-29	.....	AMFL-RTD-TDR-63-3025
N63-18779	18-18	.....	WADC-TR-75-344, PT. VII
N63-18780	18-11	.....	NO REPORT NUMBER
N63-18781	18-12	.....	AFCRL-63-197
N63-18782	18-21	.....	AFCRL-62-680, SUPPL. I

N63-18783	18-10	ASD-TDR-63-456
N63-18784	18-25	AFCRL-63-145
N63-18785	18-09	RADC-TDR-63-265
N63-18786	18-24	IPPJ-9
N63-18787	18-18	ASD-TDR-63-493
N63-18788	18-29	SSD-TDR-63-91-V, VOL. 2
N63-18789	18-10	SSD-TDR-63-91-III
N63-18790	18-09	SSD-TDR-63-91-II
N63-18791	18-33	SWC-TDR-63-43
N63-18792	18-18	ASD-TDR-63-188
N63-18793	18-07	ASD-TDR-63-616
N63-18794	18-18	ARL-63-104
N63-18795	18-20	AIAA PAPER-63-361
N63-18796	18-28	AFSWC-TDR-62-105
N63-18797	18-13	IS-562
N63-18798	18-02	AS-63-1
N63-18799	18-12	AFCRL-63-495
N63-18800	18-01	NO REPORT NUMBER
N63-18801	18-12	GA-3503
N63-18802	18-18	ASD-TDR-63-473
N63-18803	18-19	CL/63/41
N63-18804	18-20	AROD-2579-14
N63-18805	18-24	TDR-169/3230-22/TN-3
N63-18806	18-16	ASD-TDR-63-70
N63-18807	18-27	NO REPORT NUMBER
N63-18808	18-15	AFCRL-63-437
N63-18809	18-18	NO REPORT NUMBER
N63-18810	18-23	IDO-16869
N63-18811	18-23	IDO-16893
N63-18812	18-15	R-398
N63-18813	18-18	NO REPORT NUMBER
N63-18814	18-15	UCRL-10754
N63-18815	18-30	NO REPORT NUMBER
N63-18816	18-07	ORNL-3461
N63-18817	18-23	BMI-1634
N63-18818	18-22	NO REPORT NUMBER
N63-18819	18-11	NO REPORT NUMBER
N63-18820	18-16	FPRC/MEMO-162
N63-18821	18-23	NAA-SR-8401
N63-18822	18-20	LA-2827
N63-18823	18-11	UCRL-10394
N63-18824	18-21	AFCRL-63-439
N63-18825	18-16	UR-626
N63-18826	18-13	NO REPORT NUMBER
N63-18827	18-12	NO REPORT NUMBER
N63-18828	18-23	BAW-1271
N63-18829	18-23	LAMS-2882
N63-18830	18-12	AFCRL-63-609
N63-18831	18-11	NO REPORT NUMBER
N63-18832	18-30	ASD-TDR-62-1015
N63-18833	18-20	IDO-16856
N63-18834	18-26	LRP-198 /2D ED./
N63-18835	18-18	NO REPORT NUMBER
N63-18836	18-01	AIAA PAPER-63-131
N63-18837	18-33	R63FPD146
N63-18838	18-17	BMI-1637
N63-18839	18-25	SSD-TDR-62-127, VOL. VI
N63-18840	18-04	AGARD-403
N63-18841	18-32	STL-TRANS-70
N63-18842	18-07	NO REPORT NUMBER
N63-18843	18-21	T-386-R
N63-18844	18-23	NO REPORT NUMBER
N63-18845	18-31	NO REPORT NUMBER
N63-18846	18-32	NO REPORT NUMBER
N63-18847	18-11	NA-63-1
N63-18848	18-02	JPL-TR-34-160
N63-18849	18-11	IS-419
N63-18850	18-21	ERDA-27
N63-18851	18-21	NO REPORT NUMBER
N63-18852	18-14	NO REPORT NUMBER
N63-18853	18-25	ORNL-3364
N63-18854	18-23	NEL-1161
N63-18855	18-11	AEDC-TDR-63-138
N63-18856	18-09	NASA-CR-50422
N63-18857	18-01	NASA-CR-50649
N63-18858	18-28	NASA-CR-50582
N63-18859	18-12	NASA-TM-X-50195
N63-18860	18-06	NASA-TM-X-50177
N63-18861	18-09	NASA-CR-50702
N63-18862	18-29	IAS PAPER-63-56
N63-18863	18-29	NASA-TM-X-50135
N63-18864	18-01	NASA-CR-50437
N63-18865	18-18	NASA-CR-50404
N63-18866	18-09	NASA-CR-50693
N63-18867	18-34	NASA-CR-50000
N63-18868	18-02	NASA-CR-50626
N63-18869	18-29	NASA-TM-X-50131
N63-18870	18-17	NO REPORT NUMBER
N63-18871	18-10	NO REPORT NUMBER
N63-18872	18-18	SB-63-9
N63-18873	18-07	NRL-5912
N63-18874	18-32	NO REPORT NUMBER
N63-18875	18-25	MIT-TR-180
N63-18876	18-23	LAMS-2904
N63-18877	18-11	NASA-CR-50595
N63-18878	18-14	HF-1-62
N63-18879	18-14	HF-2-62
N63-18880	18-16	SAM-TDR-63-22
N63-18881	18-33	CU-2-63-ONR-266/34/-CE
N63-18882	18-21	ARF-A218-12
N63-18883	18-25	HDL-TR-1143
N63-18884	18-23	NAA-SR-8468
N63-18885	18-24	IPPJ-7
N63-18886	18-07	NO REPORT NUMBER
N63-18887	18-23	NASA-TN-D-1832
N63-18888	18-33	NASA-TN-D-1854
N63-18889	18-02	NASA-TN-D-1926
N63-18890	18-11	NO REPORT NUMBER
N63-18891	18-02	TDR-169/3230-11/TN-6
N63-18892	18-07	NO REPORT NUMBER
N63-18893	18-23	CU-1-63-AF-2461-EE
N63-18894	18-13	NASA-TN-D-1743
N63-18895	18-21	ERDA-44
N63-18896	18-23	UCRL-10438
N63-18897	18-16	SAM-TDR-63-15
N63-18898	18-09	AMRL-TDR-63-50
N63-18899	18-07	ASD-TDR-62-526, PT. II
N63-18900	18-24	AROD-3331-2
N63-18901	18-18	BM-RI-6262
N63-18902	18-24	NO REPORT NUMBER
N63-18903	18-21	ERDA-34
N63-18904	18-32	NO REPORT NUMBER
N63-18905	18-09	R63ELS-9
N63-18906	18-13	AROD-2327-2
N63-18907	18-33	PNE-112F, PT. I
N63-18908	18-23	HW-77375
N63-18909	18-23	AROD-223-7
N63-18910	18-23	USCEC-82-211
N63-18911	18-25	AFCRL-63-120/B/
N63-18912	18-09	NO REPORT NUMBER
N63-18913	18-25	AFCRL-63-120/A/
N63-18914	18-01	NO REPORT NUMBER
N63-18915	18-01	NO REPORT NUMBER
N63-18916	18-32	NO REPORT NUMBER
N63-18917	18-04	NO REPORT NUMBER
N63-18918	18-02	NO REPORT NUMBER
N63-18919	18-27	NO REPORT NUMBER
N63-18920	18-16	NO REPORT NUMBER
N63-18921	18-29	NO REPORT NUMBER
N63-18922	18-29	NO REPORT NUMBER
N63-18923	18-04	NO REPORT NUMBER
N63-18924	18-30	NO REPORT NUMBER
N63-18925	18-27	NO REPORT NUMBER
N63-18926	18-31	NO REPORT NUMBER
N63-18927	18-23	NO REPORT NUMBER
N63-18928	18-26	NO REPORT NUMBER
N63-18929	18-27	NO REPORT NUMBER
N63-18930	18-10	NO REPORT NUMBER
N63-18931	18-30	NO REPORT NUMBER
N63-18932	18-01	NO REPORT NUMBER
N63-18933	18-29	NO REPORT NUMBER
N63-18934	18-01	NO REPORT NUMBER
N63-18935	18-28	NO REPORT NUMBER
N63-18936	18-16	NO REPORT NUMBER
N63-18937	18-16	NO REPORT NUMBER
N63-18938	18-16	NO REPORT NUMBER
N63-18939	18-16	NO REPORT NUMBER
N63-18940	18-16	NO REPORT NUMBER
N63-18941	18-16	NO REPORT NUMBER
N63-18942	18-16	NO REPORT NUMBER
N63-18943	18-16	NO REPORT NUMBER
N63-18944	18-07	NO REPORT NUMBER
N63-18945	18-01	NO REPORT NUMBER
N63-18946	18-17	NO REPORT NUMBER
N63-18947	18-14	NO REPORT NUMBER
N63-18948	18-16	NO REPORT NUMBER
N63-18949	18-16	NO REPORT NUMBER
N63-18950	18-16	NO REPORT NUMBER
N63-18951	18-16	NO REPORT NUMBER
N63-18952	18-16	NO REPORT NUMBER
N63-18953	18-16	NO REPORT NUMBER
N63-18954	18-16	NO REPORT NUMBER
N63-18955	18-16	NO REPORT NUMBER
N63-18956	18-16	NO REPORT NUMBER
N63-18957	18-16	NO REPORT NUMBER
N63-18958	18-16	NO REPORT NUMBER
N63-18959	18-16	NO REPORT NUMBER
N63-18960	18-16	NO REPORT NUMBER
N63-18961	18-16	NO REPORT NUMBER
N63-18962	18-16	NO REPORT NUMBER

N63-18963 18-16 ..... NO REPORT NUMBER
N63-18964 18-16 ..... NO REPORT NUMBER
N63-18965 18-16 ..... NO REPORT NUMBER
N63-18966 18-16 ..... NO REPORT NUMBER
N63-18967 18-16 ..... NO REPORT NUMBER
N63-18968 18-16 ..... NO REPORT NUMBER
N63-18969 18-16 ..... NO REPORT NUMBER
N63-18970 18-16 ..... NO REPORT NUMBER
N63-18971 18-16 ..... NO REPORT NUMBER
N63-18972 18-23 ..... SCR-525
N63-18973 18-19 ..... NO REPORT NUMBER
N63-18974 18-25 ..... SCR-526
N63-18975 18-23 ..... NO REPORT NUMBER
N63-18976 18-08 ..... RM-3757-PR
N63-18977 18-21 ..... AFCRL-63-801
N63-18978 18-16 ..... AAL-TDR-62-43
N63-18979 18-22 ..... NO REPORT NUMBER
N63-18980 18-11 ..... NO REPORT NUMBER
N63-18981 18-21 ..... AFCRL-63-802
N63-18982 18-28 ..... NO REPORT NUMBER
N63-18983 18-23 ..... NBS-TN-120A
N63-18984 18-13 ..... MIT-34-P
N63-18985 18-29 ..... CR-65
N63-18986 18-24 ..... UCRL-10755
N63-18987 18-09 ..... BNL-6407
N63-18988 18-15 ..... BAMIRAC-4613-20-R
N63-18989 18-23 ..... NO REPORT NUMBER
N63-18990 18-24 ..... NO REPORT NUMBER
N63-18991 18-17 ..... SID-63-846
N63-18992 18-24 ..... UCRL-10762
N63-18993 18-16 ..... ASD-TDR-63-194
N63-18994 18-18 ..... NO REPORT NUMBER
N63-18995 18-29 ..... NASA-CR-50738
N63-18996 18-17 ..... NASA-CR-50739
N63-18997 18-07 ..... NASA-CR-50737
N63-18998 18-12 ..... NO REPORT NUMBER
N63-18999 18-09 ..... USAERADL-TR-2292
N63-19000 18-27 ..... RK-TR-63-15
N63-19001 18-17 ..... GA-3559
N63-19002 18-25 ..... UCRL-8030, REV.
N63-19003 18-14 ..... AMRL-MEMO-P-31
N63-19004 18-15 ..... TN-29
N63-19005 18-32 ..... NO REPORT NUMBER
N63-19006 18-09 ..... NYU-TR-400-75
N63-19007 18-13 ..... PIBAL-662
N63-19008 18-11 ..... RM-2968-PR
N63-19009 18-21 ..... ERDA-45
N63-19010 18-04 ..... MRL-MEMO-P-9
N63-19011 18-11 ..... NO REPORT NUMBER
N63-19012 18-18 ..... NO REPORT NUMBER
N63-19013 18-11 ..... MRC-399
N63-19014 18-17 ..... AEDC-TDR-63-166
N63-19015 18-16 ..... AIAA PAPER-63-143
N63-19016 18-16 ..... UCRL-9658
N63-19017 18-11 ..... NO REPORT NUMBER
N63-19018 18-18 ..... BRL-MR-1480
N63-19019 18-19 ..... BVJ-63-001-4
N63-19020 18-13 ..... R63SD35
N63-19021 18-09 ..... R63SD37
N63-19022 18-12 ..... NBS-TN-142
N63-19023 18-17 ..... SB-63-10
N63-19024 18-11 ..... RM-3270-PR
N63-19025 18-15 ..... AEDC-TDR-63-148
N63-19026 18-21 ..... NO REPORT NUMBER
N63-19027 18-08 ..... NO REPORT NUMBER
N63-19028 18-18 ..... IITRI-B6007-3
N63-19029 18-20 ..... NASA-CR-50715
N63-19030 18-18 ..... DMIC-MEMO-166
N63-19031 18-16 ..... AAL-TN-63-4
N63-19032 18-19 ..... NO REPORT NUMBER
N63-19033 18-06 ..... ARA WIND TUNNEL NOTE-52
N63-19034 18-33 ..... NO REPORT NUMBER
N63-19035 18-26 ..... NO REPORT NUMBER
N63-19036 18-20 ..... AGARD-406
N63-19037 18-32 ..... AIAA PAPER-63-132
N63-19038 18-09 ..... NO REPORT NUMBER
N63-19039 18-09 ..... UCRL-10834
N63-19040 18-27 ..... B-110053-3
N63-19041 18-18 ..... ASD-TDR-63-358
N63-19042 18-11 ..... ARAP-9-P
N63-19043 18-33 ..... NOLTR-62-79
N63-19044 18-11 ..... AROD-2231-8
N63-19045 18-13 ..... NO REPORT NUMBER
N63-19046 18-11 ..... BRN-6-P
N63-19047 18-13 ..... GEAP-3961
N63-19048 18-11 ..... AEDC-TDR-63-149
N63-19049 18-01 ..... RM-3244-PR
N63-19050 18-09 ..... RM-3726-PR
N63-19051 18-08 ..... RM-3232-PR
N63-19052 18-20 ..... RM-3370-PR
N63-19053 18-23 ..... RM-3326-PR
N63-19054 18-09 ..... RM-3333-PR
N63-19055 18-09 ..... S-545
N63-19056 18-25 ..... NO REPORT NUMBER
N63-19057 18-16 ..... AAL-TDR-62-51
N63-19058 18-24 ..... NO REPORT NUMBER
N63-19059 18-32 ..... AIAA PAPER-63-135
N63-19060 18-01 ..... NO REPORT NUMBER
N63-19061 ..... ACC. NO. NOT USED
N63-19062 18-04 ..... B-201
N63-19063 18-18 ..... ARF-8201-27
N63-19064 18-14 ..... AMRL-TDR-63-34
N63-19065 18-16 ..... ARL-TDR-63-17
N63-19066 ..... ACC. NO. NOT USED
N63-19067 18-20 ..... RM-3242-PR
N63-19068 18-11 ..... NO REPORT NUMBER
N63-19069 18-09 ..... AMRL-TDR-63-40
N63-19070 18-09 ..... RM-3269-PR
N63-19071 18-01 ..... NO REPORT NUMBER
N63-19072 18-24 ..... NO REPORT NUMBER
N63-19073 ..... ACC. NO. NOT USED
N63-19074 18-15 ..... NASA-TN-D-1757
N63-19075 18-10 ..... NASA-CR-50441
N63-19076 18-11 ..... NO REPORT NUMBER
N63-19077 18-18 ..... ORNL-3099
N63-19078 18-27 ..... TCREC-TR-62-103
N63-19079 18-23 ..... NO REPORT NUMBER
N63-19080 18-23 ..... NO REPORT NUMBER
N63-19081 18-18 ..... WAL-TR-323.4/2-2
N63-19082 18-24 ..... CM-1037
N63-19083 18-23 ..... NYO-10423
N63-19084 18-24 ..... AID-B-63-93
N63-19085 18-11 ..... CAL-90-P
N63-19086 18-20 ..... AROD-2934-13
N63-19087 18-11 ..... IITRI-1205-4
N63-19088 18-14 ..... NAVTRADEVCEN-323-1
N63-19089 18-09 ..... AID-T-63-83
N63-19090 18-32 ..... NO REPORT NUMBER
N63-19091 18-20 ..... MRC-400
N63-19092 18-14 ..... AMRL-MEMO-P-3
N63-19093 18-14 ..... AMRL-MEMO-P-23
N63-19094 18-08 ..... NASA-CR-50795
N63-19095 18-16 ..... SAM-TDR-62-122
N63-19096 18-16 ..... SAM-TDR-63-10
N63-19097 18-33 ..... R-5273
N63-19098 18-05 ..... NO REPORT NUMBER
N63-19099 18-26 ..... NO REPORT NUMBER
N63-19100 18-03 ..... HSA-83
N63-19101 18-26 ..... RPE-TN-263
N63-19102 18-07 ..... MRB-2022Q4
N63-19103 18-16 ..... NO REPORT NUMBER
N63-19104 18-24 ..... AEDC-TDR-63-124
N63-19105 18-17 ..... BIB-13
N63-19106 18-23 ..... NOLTR-62-211
N63-19107 18-08 ..... NO REPORT NUMBER
N63-19108 18-07 ..... AFCRL-63-625
N63-19109 18-29 ..... NO REPORT NUMBER
N63-19110 18-04 ..... AGARD-402
N63-19111 18-15 ..... AGARD-405
N63-19112 18-23 ..... CU-3-62-ONR-266/34/-CE/B
N63-19113 18-02 MIT FLUID DYN. RES. LAB.-63-3
N63-19114 18-23 ..... NO REPORT NUMBER
N63-19115 18-12 ..... NO REPORT NUMBER
N63-19116 18-24 ..... ARAP-8-P
N63-19117 18-07 ..... NO REPORT NUMBER
N63-19118 18-23 ..... RM-3708-PR
N63-19119 18-12 ..... NO REPORT NUMBER
N63-19120 18-20 ..... HDL-TR-1144
N63-19121 18-21 ..... ERDA-47
N63-19122 18-12 ..... JPRS-20197
N63-19123 18-20 ..... ORNL-3405
N63-19124 18-07 ..... ARL-63-109
N63-19125 18-09 ..... AID-T-63-90
N63-19126 18-20 ..... MRC-403
N63-19127 18-11 ..... MRC-408
N63-19128 18-21 ..... AFCRL-63-629
N63-19129 18-14 ..... ESD-TDR-63-135
N63-19130 18-25 ..... EID-68
N63-19131 18-28 ..... NO REPORT NUMBER
N63-19132 18-15 ..... NO REPORT NUMBER
N63-19133 18-12 ..... NO REPORT NUMBER
N63-19134 18-25 ..... POULTER LABS. TR-002-63
N63-19135 18-07 ..... GA-3985
N63-19136 18-16 ..... NSF-63-29
N63-19137 18-32 ..... NO REPORT NUMBER
N63-19138 18-32 ..... AFCRL-63-804
N63-19139 18-13 ..... R-3853-3
N63-19140 18-23 ..... EE-560
N63-19141 18-07 ..... RAE-TRANS-1036
N63-19142 18-24 ..... LANS-2911

N63-19143	18-14	AMRL-MEMO-P-21
N63-19144	18-18	WANL-PR-M-004
N63-19145	18-09	EID-63
N63-19146	18-08	AROD-4049-11
N63-19147	18-12	P-2761
N63-19148	18-24	ORNL-3325
N63-19149	18-33	NO REPORT NUMBER
N63-19150	18-07	WADD-TR-60-782, PT. XI
N63-19151	18-20	PIBMRI-1167-63
N63-19152	18-10	NAEC-ACEL-491
N63-19153	18-12	CPD-1962/3/W/
N63-19154	18-23	NYO-10431
N63-19155	18-25	IS-578
N63-19156	18-26	NO REPORT NUMBER
N63-19157	18-23	NASA-TT-F-96
N63-19158	18-32	NO REPORT NUMBER
N63-19159	18-24	AFCRL-63-607
N63-19160	18-10	AMRL-TDR-62-113
N63-19161	18-23	RM-3709-PR
N63-19162	18-23	UCRL-7316
N63-19163	18-04	HTC-AD-62-31
N63-19164	18-12	NO REPORT NUMBER
N63-19165	18-09	NYU-TR-400-76
N63-19166	18-33	NO REPORT NUMBER
N63-19167	18-13	MIT-32-P
N63-19168	18-11	USCEC-76-101
N63-19169	18-04	NO REPORT NUMBER
N63-19170	18-17	RR-63-2
N63-19171	18-17	R-296
N63-19172	18-23	ORNL-3466
N63-19173	18-21	NSSP-15
N63-19174	18-04	NO REPORT NUMBER
N63-19175	18-21	NO REPORT NUMBER
N63-19176	18-14	NASA-TN-D-1619
N63-19177	18-10	NASA-TN-D-1725
N63-19178	18-03	NASA-TN-D-1792
N63-19179	18-11	NASA-TN-D-1874
N63-19180	18-30	NASA-TN-D-1923
N63-19181	18-07	ONR-TR-RLT-60
N63-19182	18-09	LAMS-2916
N63-19183	18-28	R-63-8, PT. II
N63-19184	18-20	BR-2121
N63-19185	18-20	SCR-641
N63-19186	18-27	RAD-TM-63-14
N63-19187	18-06	TRECOM-TR-63-17
N63-19188	18-11	UTIA-TN-66
N63-19189	18-23	CERN-63-20
N63-19190	18-33	NO REPORT NUMBER
N63-19191	18-05	AFCRL-63-464
N63-19192	18-28	NO REPORT NUMBER
N63-19193	18-24	AEC-TR-5589, BK. 1
N63-19194	18-24	AEC-TR-5589, BK. 2
N63-19195	18-09	SLAC-16
N63-19196	18-16	ARL-TDR-63-18
N63-19197	18-20	NO REPORT NUMBER
N63-19198	18-18	ASD-TDR-62-868
N63-19199		ACC. NO. NOT USED
N63-19200	18-09	AFCRL-62-909
N63-19201	18-08	NASA-CR-50763
N63-19202	18-29	NASA-CR-50641
N63-19203	18-09	NASA-CR-50728
N63-19204	18-17	NASA-CR-50574
N63-19205	18-08	NASA-CR-50762
N63-19206	18-11	EUR-293.E
N63-19207	18-07	IITRI-3227-4
N63-19208	18-18	ORNL-3448
N63-19209	18-11	NO REPORT NUMBER
N63-19210	18-11	NO REPORT NUMBER
N63-19211	18-23	ACR-61
N63-19212	18-11	NA-63-5
N63-19213	18-17	NRI-228-05
N63-19214	18-33	SSD-TDR-63-14
N63-19215	18-07	AROD-006-9
N63-19216	18-18	HW-74955
N63-19217	18-23	ORNL-3431
N63-19218	18-23	LA-2912
N63-19219	18-10	ANL-6713
N63-19220	18-10	ANL-6749
N63-19221	18-07	NAA-SR-8235
N63-19222	18-09	UCRL-10396
N63-19223	18-23	UCRL-10613
N63-19224	18-07	UCRL-10743
N63-19225	18-23	UCRL-10747
N63-19226	18-23	UCRL-10862
N63-19227	18-19	GEAP-3743, PT. III
N63-19228	18-25	EUR-338.E
N63-19229		ACC. NO. NOT USED
N63-19230	18-23	NYO-10270
N63-19231	18-18	GEMP-24A
N63-19232	18-12	AFCRL-63-672
N63-19233	18-21	NO REPORT NUMBER
N63-19234	18-17	GA-2881
N63-19235	18-07	LAMS-2884
N63-19236	18-18	BM-RI-6254
N63-19237	18-16	AAL-TDR-62-45
N63-19238	18-16	AAL-TDR-62-56
N63-19239	18-19	AAL-TDR-63-12
N63-19240	18-10	DRL-TR-62-214, VOL. I
N63-19241	18-14	NO REPORT NUMBER
N63-19242	18-14	NO REPORT NUMBER
N63-19243	18-14	NO REPORT NUMBER
N63-19244	18-14	NO REPORT NUMBER
N63-19245	18-14	USAMRL-472
N63-19246	18-14	NO REPORT NUMBER
N63-19247	18-14	NO REPORT NUMBER
N63-19248	18-14	NO REPORT NUMBER
N63-19249	18-23	NO REPORT NUMBER
N63-19250	18-14	NO REPORT NUMBER
N63-19251	18-14	NO REPORT NUMBER
N63-19252	18-15	NO REPORT NUMBER
N63-19253	18-01	NO REPORT NUMBER
N63-19254	18-01	NO REPORT NUMBER
N63-19255	18-15	NO REPORT NUMBER
N63-19256	18-14	NO REPORT NUMBER
N63-19257	18-04	NO REPORT NUMBER
N63-19258	18-01	NO REPORT NUMBER
N63-19259	18-23	GEST-2009
N63-19260	18-06	NO REPORT NUMBER
N63-19261	18-19	NASA-CR-50793
N63-19262	18-07	NASA-CR-50736
N63-19263	18-13	NASA-TM-X-50221
N63-19264	18-18	NASA-TM-X-50209
N63-19265	18-18	NASA-CR-50758
N63-19266	18-23	LA-2900
N63-19267	18-02	NASA-CR-50692
N63-19268	18-09	NO REPORT NUMBER
N63-19269	18-09	NO REPORT NUMBER
N63-19270	18-23	LNF-63/34
N63-19271	18-11	NO REPORT NUMBER
N63-19272	18-26	IDA-TR-62-19
N63-19273	18-01	NO REPORT NUMBER
N63-19274	18-08	GER-10979
N63-19275	18-27	NASA-TN-D-1817
N63-19276	18-29	NASA-TN-D-1939
N63-19277	18-34	NASA-TN-D-1940
N63-19278	18-04	NASA-TN-D-1941
N63-19279	18-33	NASA-TN-D-1945
N63-19280	18-14	RM-3285-1-PR
N63-19281	18-23	LNF-63/21
N63-19282	18-18	DP-802
N63-19283	18-23	EUR-292.I
N63-19284	18-23	EUR-342.I
N63-19285	18-17	B-195
N63-19286	18-07	TID-18195
N63-19287	18-18	NO REPORT NUMBER
N63-19288	18-23	NYO-10266
N63-19289	18-23	NYO-10267
N63-19290	18-23	NYO-10268
N63-19291	18-18	NO REPORT NUMBER
N63-19292	18-07	NO REPORT NUMBER
N63-19293	18-28	NASA-CR-50760
N63-19294	18-15	AID-P-63-92
N63-19295	18-25	WAPD-270
N63-19296	18-17	GA-3396
N63-19297		ACC. NO. NOT USED
N63-19298	18-18	EUR-275.F
N63-19299	18-23	GA-4138
N63-19300	18-19	NASA-CR-50827
N63-19301	18-23	ARL-63-148
N63-19302	18-23	NASA-CR-50777
N63-19303		ACC. NO. NOT USED
N63-19304		ACC. NO. NOT USED
N63-19305	18-07	HUM-2-P
N63-19306	18-16	AAL-TDR-62-48
N63-19307	18-13	NO REPORT NUMBER
N63-19308	18-07	NO REPORT NUMBER
N63-19309	18-25	ORNL-3450
N63-19310	18-16	NO REPORT NUMBER
N63-19311	18-08	AID-B-63-99
N63-19312	18-20	AROD-3772-1
N63-19313	18-14	NO REPORT NUMBER
N63-19314	18-29	P-2639
N63-19315	18-11	RSIC-22
N63-19316	18-07	RSIC-21
N63-19317	18-24	AFCRL-63-252/X
N63-19318	18-20	MRC-402
N63-19319	18-20	MRC-401
N63-19320	18-20	MRC-371
N63-19321	18-16	AMRL-TDR-63-39
N63-19322	18-16	AMRL-TDR-63-41

N63-19323 18-19 ..... ONR-TR-RLT-62
N63-19324 18-23 FLIGHT SCIENCES LAB. TR.-65 FL
N63-19325 18-24 ..... WADD-TR-60-371
N63-19326 18-10 ..... WADD-TR-60-371, PT. II
N63-19327 18-10 ..... APEX-800, PT. B
N63-19328 18-07 ..... NOLTR-62-89
N63-19329 18-25 ..... RADC-TDR-63-238
N63-19330 18-17 ..... NEL-32
N63-19331 18-08 ..... USAELRDL-TR-2334
N63-19332 18-18 ..... NO REPORT NUMBER
N63-19333 18-13 ..... ASD-TDR-63-404
N63-19334 18-19 ..... NO REPORT NUMBER
N63-19335 18-14 ..... AMRL-TDR-62-114
N63-19336 18-23 ..... ARL-63-149
N63-19337 18-20 ..... NYO-10429
N63-19338 18-29 ..... P-2640
N63-19339 18-01 ..... NO REPORT NUMBER
N63-19340 18-11 ..... SRI-TR-17-P
N63-19341 18-11 ..... ORNL-3379
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N63-19512 19-16 ..... AMRL-TDR-63-37
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N63-19522 19-20 ..... JPRS-20501
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N63-19597 19-27 ..... NASA-CR-50660
N63-19598 19-11 ..... RE-TR-62-9
N63-19599 19-23 ..... GA-4322
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N63-19605 19-12 ..... NASA-TN-D-1851
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N63-19607 19-31 ..... NASA-TN-D-1932
N63-19608 19-11 ..... NASA-TN-D-1942
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N63-19627 19-23 ..... LNF-63/31
N63-19628 19-21 ..... AFCRL-63-449
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N63-19642 19-11 ..... BRL-1203
N63-19643 19-14 ..... ESD-TDR-63-328
N63-19644 19-13 ..... AEDC-TDR-63-139
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N63-19654 19-20 ..... NOLTR-63-124
N63-19655 19-10 ..... AFCRL-62-1113
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N63-19708	19-28	AFCRL-63-681
N63-19709	19-23	PNE-104F
N63-19710	19-23	AF-EOAR-62-103
N63-19711	19-23	AFCRL-63-168
N63-19712	19-23	AMP-112
N63-19713	19-18	NO REPORT NUMBER
N63-19714	19-23	REIC-28
N63-19715	19-27	ABL/X-87
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N63-19717	19-18	E-498-MC
N63-19718	19-21	AFCRL-63-826
N63-19719	19-15	AFCRL-63-832
N63-19720	19-12	AFCRL-63-485
N63-19721	19-21	RSIC-38
N63-19722	19-07	DP-831
N63-19723	19-23	BMI-1632/DEL:/
N63-19724	19-23	LF-9
N63-19725	19-21	RSIC-34
N63-19726	19-19	T&AM-249
N63-19727	19-11	ATN-63/9220/-6
N63-19728	19-21	AFCRL-63-690
N63-19729	19-21	JPRS-20686
N63-19730	19-25	ANL-6744
N63-19731	19-05	RSIC-35
N63-19732	19-21	NSSP-16
N63-19733	19-33	NASA-TN-D-1740
N63-19734	19-29	NASA-TN-D-1838
N63-19735	19-30	NASA-TN-D-1855
N63-19736	19-04	NASA-TN-D-1946
N63-19737	19-03	NASA-TN-D-1957
N63-19738	19-28	ASD-TDR-62-606
N63-19739	19-10	AMRL-TDR-63-48
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N63-19746	19-26	BRL-MEMO-1485
N63-19747	19-13	EOS-3000-FINAL
N63-19748	19-21	RR-TR-63-2
N63-19749	19-21	SAD-125
N63-19750	19-16	NO REPORT NUMBER
N63-19751	19-16	JPRS-20517
N63-19752	19-16	JPRS-20550
N63-19753	19-16	JPRS-20575
N63-19754	19-21	JPRS-20628
N63-19755	19-21	RSIC-31
N63-19756	19-21	RSIC-37
N63-19757	19-09	AFCRL-63-194
N63-19758	19-16	ARL-TDR-63-19
N63-19759	19-16	ARL-TDR-63-21
N63-19760	19-16	ARL-TDR-63-22
N63-19761	19-11	BSD-TDR-63-153
N63-19762	19-32	NO REPORT NUMBER
N63-19763	19-15	NO REPORT NUMBER
N63-19764	19-11	AROD-2231-9
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N63-19767	19-01	SRIA-65
N63-19768	19-05	NO REPORT NUMBER
N63-19769	19-09	AFCRL-63-170
N63-19770	19-25	NO REPORT NUMBER
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N63-19775		ACC. NO. NOT USED
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N63-19777	19-18	ASD-TDR-63-343, PT. I
N63-19778	19-08	RADC-TDR-63-255
N63-19779	19-08	RADC-TDR-63-256
N63-19780	19-28	AFCRL-63-470
N63-19781	19-29	RM-3534-PR
N63-19782	19-33	JPL-TR-32-112
N63-19783	19-27	NASA-CR-50727
N63-19784	19-10	NASA-CR-50764
N63-19785	19-10	NASA-CR-50615
N63-19786	19-16	NASA-CR-50778
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N63-19797	19-07	WAPD-TM-351
N63-19798	19-23	LAMS-2933
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N63-19809	19-19	RIA-63-1573
N63-19810	19-25	NO REPORT NUMBER
N63-19811	19-16	UR-627
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N63-19813	19-07	ORNL-3471
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N63-19815	19-11	CAL-QM-1626-A-13
N63-19816	19-11	RSIC-33
N63-19817	19-23	UCRL-10783
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N63-19821	19-23	NOLTR-63-103
N63-19822	19-18	NO REPORT NUMBER
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N63-19824	19-11	AS-63-2
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N63-19839	19-21	AFCRL-63-493
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N63-19845	19-16	AMRL-TDR-63-52
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N63-19847	19-13	AERONAUTICAL ENG. REPT.-483D
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N63-19849	19-12	RRS/IM-94
N63-19850	19-23	RS-TR-62-4
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N63-19860	19-28	NASA-TT-F-116
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N63-19863	19-29	NASA-TT-F-170
N63-19864	19-29	NASA-TT-F-171
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N63-19869	19-09	RAE-TN-SPACE-33
N63-19870	19-14	NO REPORT NUMBER
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N63-19907	19-04	ARL/SM-275
N63-19908	19-18	ARL/MET-49
N63-19909	19-23	AFCRL-63-667
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N63-19912	19-16	JPRS-20609
N63-19913	19-25	JPRS-20708
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N63-19928	19-24	RADC-TDR-63-288
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N63-19962	19-16	NASA-CR-50843
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N63-19973	19-23	CARDE-TN-1557/63
N63-19974	19-23	AFCRL-63-822
N63-19975	19-25	AFCRL-63-312
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N63-20239	20-06	RCA-AED-R-1875
N63-20240	20-07	AE-96
N63-20241	20-15	AFCRL-63-665
N63-20242	20-32	NASA-TM-X-50173
N63-20243	20-10	NASA-TM-X-50245
N63-20244	20-13	NASA-CR-50773
N63-20245	20-13	NASA-TM-X-50227
N63-20246	20-29	NASA-CR-50850
N63-20247	20-33	NASA-TM-X-50175
N63-20248	20-16	NASA-CR-50860
N63-20249	20-08	NASA-CR-50856
N63-20250	20-24	NASA-CR-50854
N63-20251	20-24	NASA-CR-50853
N63-20252	20-10	AID-P-63-88
N63-20253	20-16	AID-P-63-95
N63-20254	20-09	NASA-CR-50888
N63-20255		ACC. NO. NOT USED
N63-20256	20-16	NASA-CR-50828
N63-20257	20-23	JPL-TR-32-430
N63-20258	20-29	NASA-CR-50800
N63-20259	20-19	NASA-CR-50877
N63-20260	20-29	NO REPORT NUMBER
N63-20261	20-04	DFL-210
N63-20262		ACC. NO. NOT USED
N63-20263	20-21	NO REPORT NUMBER
N63-20264		ACC. NO. NOT USED
N63-20265	20-22	NO REPORT NUMBER
N63-20266	20-18	RSIC-32
N63-20267		ACC. NO. NOT USED
N63-20268	20-11	NASA-CR-50469
N63-20269	20-08	NO REPORT NUMBER
N63-20270	20-32	AIAA-PAPER-63073
N63-20271	20-21	NO REPORT NUMBER
N63-20272	20-27	NO REPORT NUMBER
N63-20273	20-12	NO REPORT NUMBER
N63-20274	20-13	NO REPORT NUMBER
N63-20275	20-05	NO REPORT NUMBER
N63-20276	20-19	TIL/T-5394
N63-20277	20-17	TIL/T-5344
N63-20278	20-29	NO REPORT NUMBER
N63-20279	20-01	RAS-TM-62-2
N63-20280	20-23	AECL-1778
N63-20281	20-18	FPR-007
N63-20282	20-23	USNRDL-TR-598
N63-20283	20-25	DS-117
N63-20284	20-19	DS-106
N63-20285	20-19	DS-107
N63-20286	20-25	DS-108
N63-20287	20-25	DS-120
N63-20288	20-19	DS-122
N63-20289	20-25	DS-126
N63-20290	20-19	DS-127
N63-20291		ACC. NO. NOT USED
N63-20292	20-13	GDA-63-0173
N63-20293	20-24	NO REPORT NUMBER
N63-20294	20-18	ASD-TDR-62-479, PART I
N63-20295	20-18	ASD-TDR-62-479, PART II
N63-20296	20-25	DS-111
N63-20297	20-25	DS-113
N63-20298	20-18	DS-114
N63-20299	20-25	DS-110
N63-20300	20-25	DS-119
N63-20301	20-23	F-2022-1
N63-20302	20-08	NO REPORT NUMBER
N63-20303	20-09	NO REPORT NUMBER
N63-20304	20-25	DS-121
N63-20305	20-33	ASD-TDR-63-411
N63-20306	20-19	DS-125
N63-20307	20-12	TDR-169/3260-50/TN-3
N63-20308	20-19	RADC-TDR-63-269
N63-20309	20-23	NO REPORT NUMBER
N63-20310	20-26	NO REPORT NUMBER
N63-20311	20-23	NO REPORT NUMBER
N63-20312	20-11	NO REPORT NUMBER
N63-20313	20-13	D2-22006
N63-20314	20-02	DI-82-0275
N63-20315	20-06	NASA-SP-3003
N63-20316	20-16	NASA-CR-50899
N63-20317	20-29	AIAA PAPER 63-420
N63-20318	20-19	NO REPORT NUMBER
N63-20319	20-32	AIAA PAPER 63-350
N63-20320	20-29	AIAA PAPER 63-410
N63-20321	20-29	AIAA PAPER-63-417
N63-20322	20-13	AIAA PAPER 63-465
N63-20323		ACC. NO. NOT USED
N63-20324	20-13	NASA-TN-D-1972
N63-20325	20-27	NO REPORT NUMBER
N63-20326	20-12	NRL-5983
N63-20327	20-17	JPRS-20566
N63-20328	20-16	JPRS-20791
N63-20329	20-18	JPRS-20810
N63-20330	20-14	NO REPORT NUMBER
N63-20331	20-18	NO REPORT NUMBER
N63-20332	20-18	NO REPORT NUMBER
N63-20333	20-16	SAM-TDR-63-13
N63-20334	20-32	NASA-TM-X-899
N63-20335	20-24	AFCRL-63-161
N63-20336	20-23	NO REPORT NUMBER
N63-20337	20-02	AEDC-TDR-63-163
N63-20338	20-23	NOLTR-62-182
N63-20339	20-29	RAE-TN-SPACE-35
N63-20340	20-29	NO REPORT NUMBER
N63-20341	20-18	NO REPORT NUMBER
N63-20342	20-27	AIAA PAPER-63-005
N63-20343	20-27	AIAA PAPER-63034-63
N63-20344	20-24	AIAA-PAPER-63055
N63-20345	20-07	MLM-1146
N63-20346	20-16	UCLA-516
N63-20347	20-23	NASA-TN-D-1985
N63-20348	20-25	NO REPORT NUMBER
N63-20349	20-15	NO REPORT NUMBER
N63-20350	20-16	NO REPORT NUMBER
N63-20351	20-04	NO REPORT NUMBER
N63-20352	20-04	NO REPORT NUMBER
N63-20353	20-04	NO REPORT NUMBER
N63-20354	20-04	NO REPORT NUMBER
N63-20355	20-04	NO REPORT NUMBER
N63-20356	20-04	NO REPORT NUMBER
N63-20357	20-04	NO REPORT NUMBER
N63-20358	20-04	NO REPORT NUMBER
N63-20359	20-04	NO REPORT NUMBER
N63-20360	20-04	NO REPORT NUMBER
N63-20361	20-04	NO REPORT NUMBER
N63-20362	20-04	NO REPORT NUMBER
N63-20363	20-04	NO REPORT NUMBER
N63-20364	20-04	NO REPORT NUMBER
N63-20365	20-22	HRB-SINGER-353-R-2
N63-20366	20-09	NO REPORT NUMBER
N63-20367	20-18	NO REPORT NUMBER
N63-20368	20-18	DI-82-0169
N63-20369	20-17	RBESD-3404-3
N63-20370	20-18	MET-E-1040-6305Q2
N63-20371	20-19	RIAS-TR-63-15
N63-20372	20-18	ARF-R3501-B4T
N63-20373	20-23	AFCRL-63-128
N63-20374	20-11	NO REPORT NUMBER
N63-20375	20-25	DS-118
N63-20376	20-33	AMRA-TR-63-06
N63-20377	20-19	NAVWEPS-7949
N63-20378	20-08	NO REPORT NUMBER
N63-20379		ACC. NO. NOT USED
N63-20380	20-25	DS-109
N63-20381	20-25	DS-112
N63-20382	20-23	RM-2927-PR
N63-20383	20-20	BRL-1197, VOL. 1
N63-20384	20-20	BRL-1197, VOL. 2
N63-20385	20-20	BRL-1197, VOL. 3
N63-20386	20-20	BRL-1197, VOL. 4
N63-20387	20-20	BRL-1197, VOL. 5
N63-20388	20-20	NO REPORT NUMBER
N63-20389	20-11	NA-63-3
N63-20390	20-09	JPRS-20486
N63-20391	20-14	JPRS-20680
N63-20392	20-16	JPRS-20731
N63-20393	20-15	UCRL-10770
N63-20394	20-07	PA-TR-3078
N63-20395	20-07	ONRL-3391
N63-20396	20-09	DP-798
N63-20397		ACC. NO. NOT USED
N63-20398	20-15	USNRDL-TR-654
N63-20399	20-14	JPRS-20629
N63-20400	20-23	RIFP-26
N63-20401	20-25	DS-116
N63-20402	20-25	DS-115

N63-20403	.....	ACC. NO. NOT USED
N63-20404	20-08	NO REPORT NUMBER
N63-20405	20-19	DS-123
N63-20406	20-25	DS-124
N63-20407	20-19	DS-128
N63-20408	20-11	NBS-MONOGRAPH-55
N63-20409	20-09	AFCRL-63-185
N63-20410	20-04	BOSP-7-4-1
N63-20411	20-08	RADC-TDR-63-302
N63-20412	20-25	AFCRL-63-314
N63-20413	20-25	IER SER. 60, ISSUE 452
N63-20414	20-17	ASD-TDR-7-946/III/
N63-20415	20-19	WADD-TR-61-72, VOL. 14
N63-20416	20-19	WADD-TR-61-72, VOL. 18
N63-20417	20-17	ASD-TDR-63-565
N63-20418	20-24	PIBMRI-1154-63
N63-20419	20-12	UAG-R139
N63-20420	20-11	NOLTR-63-33
N63-20421	20-28	NYO-10273
N63-20422	20-23	RSIC-43
N63-20423	20-23	RSIC-42
N63-20424	20-02	DI-204-24
N63-20425	.....	ACC. NO. NOT USED
N63-20426	20-18	DMIC-MEMO-169
N63-20427	20-11	NO REPORT NUMBER
N63-20428	20-23	NASA-TT-F-101
N63-20429	.....	ACC. NO. NOT USED
N63-20430	20-18	NO REPORT NUMBER
N63-20431	20-16	JPRS-20713
N63-20432	20-18	Y-1417
N63-20433	20-33	NO REPORT NUMBER
N63-20434	20-27	AIAA PAPER-63029-63
N63-20435	20-16	JPRS-20520
N63-20436	20-16	ANL-6723
N63-20437	20-20	AFCRL-63-188
N63-20438	20-16	ORO-605
N63-20439	20-23	NO REPORT NUMBER
N63-20440	20-24	R-51
N63-20441	20-26	ANL-6711
N63-20442	20-24	NO REPORT NUMBER
N63-20443	20-19	NO REPORT NUMBER
N63-20444	20-10	ANL-6764
N63-20445	20-11	NO REPORT NUMBER
N63-20446	20-11	NO REPORT NUMBER
N63-20447	20-12	NO REPORT NUMBER
N63-20448	20-12	NO REPORT NUMBER
N63-20449	20-12	NO REPORT NUMBER
N63-20450	20-12	NO REPORT NUMBER
N63-20451	20-12	NO REPORT NUMBER
N63-20452	20-10	NO REPORT NUMBER
N63-20453	20-10	NO REPORT NUMBER
N63-20454	20-19	NO REPORT NUMBER
N63-20455	20-10	NO REPORT NUMBER
N63-20456	20-10	NO REPORT NUMBER
N63-20457	20-23	AFCRL-63-657
N63-20458	20-09	AFCRL-63-311
N63-20459	20-23	CERN-63-22
N63-20460	20-23	CERN-63-23
N63-20461	20-18	WAL-TR-310.22/3
N63-20462	20-09	NO REPORT NUMBER
N63-20463	20-23	AMC-RR-TR-63-11
N63-20464	.....	ACC. NO. NOT USED
N63-20465	20-16	EUR-308.E
N63-20466	20-32	NO REPORT NUMBER
N63-20467	20-33	NO REPORT NUMBER
N63-20468	20-12	ERDA-62
N63-20469	20-12	ERDA-63
N63-20470	.....	ACC. NO. NOT USED
N63-20471	20-19	NO REPORT NUMBER
N63-20472	20-23	NO REPORT NUMBER
N63-20473	20-13	AEDC-TDR-63-155
N63-20474	20-09	ST-144
N63-20475	20-13	PIBAL-665
N63-20476	20-06	NASA-RP-3
N63-20477	20-21	AFCRL-63-671
N63-20478	20-08	AIAA PAPER-63-348
N63-20479	20-01	NO REPORT NUMBER
N63-20480	20-01	NO REPORT NUMBER
N63-20481	20-01	NO REPORT NUMBER
N63-20482	20-01	NO REPORT NUMBER
N63-20483	20-09	NO REPORT NUMBER
N63-20484	20-02	NASA-MEMO-6-11-59L
N63-20485	20-02	NACA-RM-E57-G02
N63-20486	20-18	LAMS-2917
N63-20487	.....	ACC. NO. NOT USED
N63-20488	20-23	NO REPORT NUMBER
N63-20489	20-16	EUR-242.E
N63-20490	20-10	WADD-TR-60-470, PT. 3
N63-20491	20-29	AIAA PAPER-63-334
N63-20492	20-29	AIAA PAPER-63-344
N63-20493	20-08	AIAA PAPER-63-351
N63-20494	20-29	AIAA PAPER-63-480
N63-20495	20-29	AIAA PAPER-63-404
N63-20496	20-34	AIAA PAPER-63-409
N63-20497	20-29	AIAA PAPER-63-414
N63-20498	20-32	AIAA PAPER-63-424
N63-20499	20-08	AFCRL-63-190
N63-20500	20-26	NO REPORT NUMBER
N63-20501	20-11	R-8
N63-20502	20-13	C-63789
N63-20503	20-08	RADC-TDR-63-270
N63-20504	20-28	RAE-TM-SPACE-16
N63-20505	20-25	AFCRL-63-326
N63-20506	20-26	USNRDL-TR-660
N63-20507	20-18	NO REPORT NUMBER
N63-20508	20-11	NO REPORT NUMBER
N63-20509	20-27	NO REPORT NUMBER
N63-20510	20-33	NO REPORT NUMBER
N63-20511	20-32	NO REPORT NUMBER
N63-20512	20-29	NO REPORT NUMBER
N63-20513	20-23	NO REPORT NUMBER
N63-20514	20-23	NO REPORT NUMBER
N63-20515	20-29	NO REPORT NUMBER
N63-20516	.....	ACC. NO. NOT USED
N63-20517	20-11	R-31
N63-20518	20-19	REIC-27
N63-20519	20-07	EUR-270.E
N63-20520	20-16	NADC-MA-6307
N63-20521	20-23	NO REPORT NUMBER
N63-20522	20-07	NO REPORT NUMBER
N63-20523	20-12	NO REPORT NUMBER
N63-20524	20-34	NASA-TM-X-28
N63-20525	20-33	NACA-RM-E57G09
N63-20526	20-33	NACA-RM-L56G06
N63-20527	20-02	NACA-RM-L57G15
N63-20528	20-02	NACA-RM-L53108A
N63-20529	20-13	NACA-RM-L58G21
N63-20530	20-13	NACA-RM-L58G03
N63-20531	20-27	NACA-RM-E54E06
N63-20532	20-02	NACA-RM-A58F30
N63-20533	20-03	NACA-RM-L53I23
N63-20534	20-27	NACA-RM-E58F20A
N63-20535	20-32	NASA-TM-X-373
N63-20536	20-13	NASA-TM-X-508
N63-20537	20-32	NASA-TM-X-522
N63-20538	20-27	NASA-TM-X-540
N63-20539	20-02	NASA-TM-X-547
N63-20540	20-03	NASA-TM-X-569
N63-20541	20-02	NASA-TM-X-571
N63-20542	20-18	UCRL-10816
N63-20543	20-08	EUR-363.F
N63-20544	20-08	NO REPORT NUMBER
N63-20545	20-29	NO REPORT NUMBER
N63-20546	20-11	NOLTR-62-184
N63-20547	20-26	P-63-13
N63-20548	.....	ACC. NO. NOT USED
N63-20549	20-07	HUM-3-P
N63-20550	20-09	NO REPORT NUMBER
N63-20551	20-16	NO REPORT NUMBER
N63-20552	20-16	NO REPORT NUMBER
N63-20553	20-16	NO REPORT NUMBER
N63-20554	20-16	NO REPORT NUMBER
N63-20555	20-16	NO REPORT NUMBER
N63-20556	20-14	NO REPORT NUMBER
N63-20557	20-14	NO REPORT NUMBER
N63-20558	20-32	NO REPORT NUMBER
N63-20559	20-32	NO REPORT NUMBER
N63-20560	20-16	NO REPORT NUMBER
N63-20561	20-04	NO REPORT NUMBER
N63-20562	20-32	NO REPORT NUMBER
N63-20563	20-32	NO REPORT NUMBER
N63-20564	20-29	NO REPORT NUMBER
N63-20565	20-29	NO REPORT NUMBER
N63-20566	20-16	NO REPORT NUMBER
N63-20567	20-16	NO REPORT NUMBER
N63-20568	20-16	NO REPORT NUMBER
N63-20569	20-16	NO REPORT NUMBER
N63-20570	20-28	NO REPORT NUMBER
N63-20571	20-16	NO REPORT NUMBER
N63-20572	20-16	NO REPORT NUMBER
N63-20573	20-16	NO REPORT NUMBER
N63-20574	20-16	NO REPORT NUMBER
N63-20575	20-16	NO REPORT NUMBER
N63-20576	20-16	NO REPORT NUMBER
N63-20577	20-01	NO REPORT NUMBER
N63-20578	20-24	AFCRL-63-674
N63-20579	20-33	ATC-ARTC-32
N63-20580	20-08	NO REPORT NUMBER
N63-20581	20-15	NO REPORT NUMBER
N63-20582	20-09	ASD-TR-63-7-741, VOL. 2

N63-20583 20-18 ..... Q-82089-2
N63-20584 20-06 ..... MND-P-2836
N63-20585 20-29 ..... NO REPORT NUMBER
N63-20586 20-23 ..... NO REPORT NUMBER
N63-20587 20-17 ..... NO REPORT NUMBER
N63-20588 20-03 ..... NO REPORT NUMBER
N63-20589 20-16 ..... NO REPORT NUMBER
N63-20590 20-11 ..... AEDC-TDR-63-170
N63-20591 20-08 ..... NO REPORT NUMBER
N63-20592 20-07 ..... AFCRL-63-153
N63-20593 20-19 ..... RSIC-47
N63-20594 20-11 ..... PIBAL-771
N63-20595 20-19 ..... PLASTEC-6
N63-20596 20-09 ..... TIS-R62ELM-186-10
N63-20597 20-26 ..... GDA-63-0785
N63-20598 20-11 ..... NO REPORT NUMBER
N63-20599 20-09 ..... CR-63-547-43
N63-20600 20-11 ..... AEDC-TDR-63-168
N63-20601 20-32 ..... NASA-TN-D-1841
N63-20602 20-06 ..... NASA-TN-D-1846
N63-20603 20-12 ..... NASA-TN-D-1850
N63-20604 20-11 ..... NASA-TN-D-1876
N63-20605 20-32 ..... NASA-TN-D-1903
N63-20606 20-06 ..... NASA-TN-D-1904
N63-20607 20-04 ..... NASA-TN-D-1965
N63-20608 20-13 ..... NASA-TN-D-1978
N63-20609 20-29 ..... NASA-TN-D-2021
N63-20610 20-23 ..... NASA-TT-F-153
N63-20611 20-16 ..... NASA-TT-F-166
N63-20612 20-17 ..... NASA-TT-F-185
N63-20613 20-16 ..... NASA-TT-F-186
N63-20614 20-18 ..... BNL-814/PR-3/
N63-20615 20-33 ..... RE-165
N63-20616 20-08 ..... ER-2916, REV.
N63-20617 20-22 ..... WB-WORKING PAPER 156-25
N63-20618 20-16 ..... NO REPORT NUMBER
N63-20619 20-16 ..... SAM-TDR-62-68
N63-20620 20-18 ..... NO REPORT NUMBER
N63-20621 20-12 ..... AFCRL-63-612
N63-20622 20-12 ..... AFCRL-63-656
N63-20623 20-11 ..... NO REPORT NUMBER
N63-20624 20-18 ..... ARMA-TR-63-08
N63-20625 20-05 ..... NO REPORT NUMBER
N63-20626 20-21 ..... AFCRL-63-670
N63-20627 20-23 ..... NO REPORT NUMBER
N63-20628 20-25 ..... NO REPORT NUMBER
N63-20629 20-11 ..... NO REPORT NUMBER
N63-20630 20-11 ..... NO REPORT NUMBER
N63-20631 20-14 ..... ESD-TDR-63-407
N63-20632 20-09 ..... NO REPORT NUMBER
N63-20633 20-29 ..... NO REPORT NUMBER
N63-20634 20-23 ..... ARL-63-96
N63-20635 20-23 ..... AIAA PAPER-63-460
N63-20636 20-16 ..... ARL-TDR-63-20
N63-20637 20-09 ..... JPRS-20835
N63-20638 20-21 ..... JPRS-20865
N63-20639 ..... ACC. NO. NOT USED
N63-20640 20-16 ..... UCLA-515
N63-20641 20-11 ..... NO REPORT NUMBER
N63-20642 20-14 ..... ESD-TDR-63-406
N63-20643 20-26 ..... AGN-AN-1013
N63-20644 20-11 ..... AIAA PAPER-63-380
N63-20645 20-24 ..... NO REPORT NUMBER
N63-20646 20-12 ..... NO REPORT NUMBER
N63-20647 20-32 ..... NO REPORT NUMBER
N63-20648 20-28 ..... NO REPORT NUMBER
N63-20649 20-10 ..... TRECOM-TR-63-27
N63-20650 20-26 ..... RSIC-27
N63-20651 20-16 ..... SAM-TDR-63-31
N63-20652 20-25 ..... MND-2584-4
N63-20653 20-23 ..... NO REPORT NUMBER
N63-20654 20-29 ..... RSIC-44
N63-20655 20-08 ..... EID-70
N63-20656 20-16 ..... SAM-TDR-63-40
N63-20657 20-24 ..... AEDC-TDR-63-146
N63-20658 20-18 ..... NO REPORT NUMBER
N63-20659 20-11 ..... MIT-DSR-9126
N63-20660 20-28 ..... AFCRL-63-686
N63-20661 20-21 ..... JPRS-20782
N63-20662 20-20 ..... JPRS-20780
N63-20663 20-16 ..... JPRS-20868
N63-20664 20-08 ..... W-J-61-336AR24
N63-20665 20-19 ..... RDR-1343-3
N63-20666 20-33 ..... RSIC-45
N63-20667 20-33 ..... AFSWC-TDR-63-48
N63-20668 20-25 ..... TDR-169/3240-01/TN-2
N63-20669 20-31 ..... SM-43616
N63-20670 20-17 ..... AAC-4434
N63-20671 20-18 ..... NRL-5948
N63-20672 20-25 ..... USAELRDL-TR-2320
N63-20673 20-23 ..... AEEW-R-131
N63-20674 20-33 ..... MET-1078-863-I1
N63-20675 20-24 ..... AFCRL-63-830
N63-20676 20-08 ..... AFCRL-63-684
N63-20677 20-08 ..... AFCRL-63-637
N63-20678 20-24 ..... AFCRL-63-695
N63-20679 20-24 ..... AFCRL-63-658
N63-20680 20-09 ..... ASD-TDR-63-87
N63-20681 20-18 ..... ANL-6648
N63-20682 20-04 ..... RS-TM-63-1
N63-20683 20-28 ..... NO REPORT NUMBER
N63-20684 20-18 ..... NO REPORT NUMBER
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N63-20780	21-23	APP-3
N63-20781	21-24	UCRL-7363
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N63-20783	21-19	AFCRL-63-662
N63-20784	21-23	AFOSR-62-120
N63-20785	21-23	NYO-10276
N63-20786	21-23	NYO-10277
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N63-20788	21-20	ASD-TDR-63-128
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N63-20798	21-17	NASA-RP-5
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N63-20824	21-04	TRECOM-TR-63-37
N63-20825	21-20	ARL-63-107
N63-20826	21-19	BSD-TDR-63-109
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N63-20838	21-32	RAE-R-SPACE-1
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N63-20897	21-23	UCRL-10813
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N63-20920	21-17	SAM-TDR-62-130
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N63-20922	21-23	MLM-1159
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N63-20924	21-20	ONR-RM-80
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N63-20947	21-02	AS-63-3
N63-20948	21-21	NAL-TN-WP-20-63
N63-20949	21-21	NAL-TN-WP-19-62
N63-20950	21-25	R-68
N63-20951	21-26	GA-4140
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N63-20955	21-07	NO REPORT NUMBER
N63-20956	21-17	NO REPORT NUMBER
N63-20957	21-18	ERR-FW-178
N63-20958	21-07	BNL-796/T-305/
N63-20959	21-18	NO REPORT NUMBER
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N63-20961	21-09	PIBMRI-1018-62
N63-20962	21-32	NASA-CR-51022
N63-20963	21-08	NASA-CR-51028
N63-20964	21-20	NAVTRADEVCEN-594-1
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N63-20973	21-17	SAM-TDR-63-49
N63-20974	21-25	MIT-TR-181
N63-20975	21-25	AROD-2914-13
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N63-20992	21-26	NOLTR-63-12
N63-20993	21-11	NOLTR-63-94
N63-20994	21-19	DMIC-184
N63-20995	21-25	RAE-TRANS-1037
N63-20996	21-01	STL-9990-6363-RU-000
N63-20997	21-13	AEDC-TDR-63-161
N63-20998	21-32	U-2202
N63-20999	21-29	RTD-TDR-63-1050, VOL. 1
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N63-21003	21-28	NSF-63-137
N63-21004	21-12	NO REPORT NUMBER
N63-21005	21-09	NASA-RP-9
N63-21006	21-19	NO REPORT NUMBER
N63-21007	21-26	WGL-2-1962
N63-21008	21-09	ASD-IR-7-865/VI/
N63-21009	21-24	AROD-2267-7
N63-21010	21-18	FTDM-3013
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N63-21012	21-13	PCTR-4594
N63-21013	21-19	IS-657
N63-21014	21-23	ORNL-3468
N63-21015	21-18	NO REPORT NUMBER
N63-21016	21-09	W-J-63-609R15
N63-21017	21-13	LAMS-2934
N63-21018	21-23	TID-3523/REV. 5/
N63-21019	21-22	HAWAII INST. GEOPHYS. REPT.-37
N63-21020	21-26	DASA-1378
N63-21021	21-23	AEC-TR-5734
N63-21022	21-11	NO REPORT NUMBER
N63-21023	21-11	NO REPORT NUMBER
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N63-21025	21-17	JPRS-20948
N63-21026	21-23	JPRS-20959
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N63-21030	21-33	ERR-FW-130
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N63-21032	21-23	ANL-6694
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N63-21036	21-17	JPRS-18589
N63-21037	21-20	DP-822
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N63-21039	21-12	AFCRL-63-835
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N63-21053	21-09	NASA-CR-50754
N63-21054	21-24	NASA-CR-51021
N63-21055	21-33	NASA-TN-D-1948
N63-21056	21-32	NASA-TN-D-1955
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N63-21058	21-04	TCREC-TR-62-41
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N63-21067	21-27	NO REPORT NUMBER
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N63-21072	21-06	NASA-CR-50940
N63-21073	21-11	NASA-TT-F-94
N63-21074	21-27	NASA-CR-50959
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N63-21100	21-29	NASA-RP-16
N63-21101	21-32	NASA-SP-33, PT. 1
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N63-21103	21-32	NASA-SP-33, PT. 3
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N63-21105	21-32	NASA-SP-34, PT. 2
N63-21106	21-32	NASA-SP-34, PT. 3
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N63-21115	21-02	ASD-TDR-62-801
N63-21116	21-09	RADC-TDR-63-108
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N63-21119	21-11	NASA-CR-50996
N63-21120	21-17	NASA-CR-50997
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N63-21122	21-27	AIAA PAPER 63-273

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N63-21126	21-01	NASA-SP-40
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N63-21159	21-23	AFCRL-63-640
N63-21160	21-15	RG-TR-63-22
N63-21161	21-23	UCRL-10888
N63-21162	21-06	RAE-TN-SPACE-17
N63-21163	21-19	BMI-1633
N63-21164	21-11	AIAA PAPER 63-439
N63-21165	21-09	NO REPORT NUMBER
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N63-21167	21-06	AIAA PAPER-63035
N63-21168	21-19	IITRI-C6013-1
N63-21169	21-33	RM-3650-PR
N63-21170	21-12	AFCRL-63-834
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N63-21172	21-19	USNRDL-TR-657
N63-21173	21-22	GCA-TR-62-24-A
N63-21174	21-06	CAL-ZF-1724-X-1
N63-21175	21-18	HW-76642
N63-21176	21-09	NO REPORT NUMBER
N63-21177	21-23	CERN-63-27
N63-21178	21-23	NASA-CR-51044
N63-21179	21-23	NO REPORT NUMBER
N63-21180	21-18	NLCO-885
N63-21181	21-18	B-910068-3
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N63-21183		ACC. NO. NOT USED
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N63-21195	21-09	NO REPORT NUMBER
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N63-21202	21-12	AFCRL-63-650
N63-21203	21-19	RSIC-30
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N63-21206	21-20	ANL-6722
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N63-21209	21-23	SEL-63-030
N63-21210	21-25	NO REPORT NUMBER
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N63-21215	21-13	EOS-RN-14
N63-21216	21-09	RTD-TDR-63-3007
N63-21217	21-23	GA-2984
N63-21218	21-16	ARL-TDR-63-6
N63-21219	21-26	BRL-TN-1505
N63-21220	21-19	AFCRL-62-594
N63-21221	21-11	RF-1021-18
N63-21222	21-09	AFCRL-62-545
N63-21223	21-15	NO REPORT NUMBER
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N63-21225	21-09	RADC-TDR-62-191
N63-21226	21-06	ER-4925
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N63-21228	21-19	RSIC-51
N63-21229	21-19	SUDAER-119
N63-21230	21-09	RADC-TDR-63-306
N63-21231	21-18	NO REPORT NUMBER
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N63-21233	21-18	ASD-TDR-63-605, PT. I
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N63-21240	21-28	GER-11234
N63-21241	21-20	RM-3012-PR
N63-21242	21-28	NYO-10243
N63-21243	21-09	PIBMRI-991-62
N63-21244	21-24	PWA-2133
N63-21245	21-24	PWA-2170
N63-21246	21-19	TDR-169/3240/TN-2
N63-21247	21-02	NO REPORT NUMBER
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N63-21250	21-32	NASA-TM-X-50372
N63-21251	21-06	NASA-TM-X-50427
N63-21252	21-06	NASA-CR-51005
N63-21253	21-27	NASA-CR-51018
N63-21254	21-28	NASA-CR-51033
N63-21255	21-20	NLR-TN-V.1895
N63-21256	21-09	ARL/1-62
N63-21257	21-03	ARC-R&M-3293
N63-21258	21-23	ORNL-3445
N63-21259	21-18	GEAP-4211
N63-21260	21-23	UAG-R140
N63-21261	21-19	ATN-64/9236/-2
N63-21262	21-09	RADC-TDR-63-349
N63-21263	21-16	NO REPORT NUMBER
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N63-21274	21-21	NO REPORT NUMBER
N63-21275	21-21	NASA-RP-30
N63-21276	21-18	NO REPORT NUMBER
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N63-21278	21-12	NO REPORT NUMBER
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N63-21281	21-02	R-971
N63-21282	21-20	NO REPORT NUMBER
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N63-21285	21-33	LMSC-6-90-63-86
N63-21286	21-23	CU-2-63 ONR-266/86/-CE
N63-21287	21-24	NO REPORT NUMBER
N63-21288	21-24	RADC-TDR-62-464, VOL. VI
N63-21289	21-08	NOLTR-62-75
N63-21290	21-26	R-1671
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N63-21296	21-09	GD/C-63-179
N63-21297	21-09	NO REPORT NUMBER
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N63-21299	21-02	RAE-TM-AERO-754
N63-21300	21-17	ASD-TDR-63-716
N63-21301	21-16	AMRL-TDR-63-3
N63-21302	21-18	ASD-TDR-63-509, PT. I

N63-21303	21-02	NO REPORT NUMBER
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N63-21306	21-23	NO REPORT NUMBER
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N63-21311	21-12	NASA-TM-X-50424
N63-21312	21-09	NASA-CR-51332
N63-21313	21-19	NASA-CR-51244
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N63-21316	21-30	AIAA PAPER 63-318
N63-21317	21-11	NASA-CR-51298
N63-21318	21-11	LMSC-6-90-63-31
N63-21319	21-13	HW-77681
N63-21320	21-25	AFCRL-63-323/4B/
N63-21321	21-25	AFCRL-63-323/4A/
N63-21322	21-16	AFCRL-63-839
N63-21323	21-32	RM-3700-PR
N63-21324	21-27	NASA-CR-50964
N63-21325	21-10	NASA-CR-51236
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N63-21327	21-33	NASA-CR-51340
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N63-21329	21-18	NASA-RP-26
N63-21330	21-11	NASA-RP-24
N63-21331	21-29	AIAA PAPER-63423
N63-21332	21-19	NASA-CR-31140
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N63-21348	21-32	NASA-CR-51015
N63-21349	21-23	GCA-TR-62-28-A
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N63-21364	22-06	NASA-CR-51210
N63-21365	22-19	NASA-TM-X-50413
N63-21366	22-06	AMRL-TDR-63-67
N63-21367	22-09	NASA-CR-51213
N63-21368	22-29	NASA-RP-29
N63-21369	22-19	NASA-RP-27
N63-21370	22-19	NASA-RP-25
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N63-21375	22-15	NRL-5933
N63-21376	22-28	NO REPORT NUMBER
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N63-21387	22-21	BEC-4696
N63-21388	22-05	NO REPORT NUMBER
N63-21389	22-32	NASA-RP-10
N63-21390	22-16	ANL-6765
N63-21391	22-18	PSI-3000-43-Q-3
N63-21392	22-21	NASA-TT-F-115
N63-21393	22-19	NO REPORT NUMBER
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N63-21396	22-16	AAL-TDR-62-41
N63-21397	22-16	AAL-TDR-62-12
N63-21398	22-16	AAL-TDR-62-47
N63-21399	22-16	AAL-TDR-62-63
N63-21400	22-16	AAL-TDR-62-7
N63-21401	22-12	NO REPORT NUMBER
N63-21402	22-23	MND-M-2935/VOL. 1/
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N63-21404	22-20	PIBMRI-1130-63
N63-21405	22-20	NO REPORT NUMBER
N63-21406	22-23	ANL-6680
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N63-21408	22-16	AAL-TDR-62-64
N63-21409	22-17	A078
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N63-21418	22-06	NRL-5908
N63-21419	22-11	EOS-RN-8
N63-21420	22-33	TDR-169/3560-30/-TN-2
N63-21421	22-19	AFCRL-63-303
N63-21422	22-09	NO REPORT NUMBER
N63-21423	22-09	NO REPORT NUMBER
N63-21424	22-18	SN-91657
N63-21425	22-05	R-60
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N63-21427	22-11	RSIC-28
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N63-21433	22-05	NASA-CR-51365
N63-21434	22-12	NO REPORT NUMBER
N63-21435	22-20	NASA-SP-6003
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N63-21437	22-29	ASD-TDR-63-537
N63-21438	22-23	NO REPORT NUMBER
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N63-21441	22-33	ASD-TDR-63-515
N63-21442	22-23	NAA-SR-7921
N63-21443	22-24	SC-4911/RR/
N63-21444	22-23	AROD-3187-2
N63-21445	22-22	RE-TR-63-3
N63-21446	22-12	NBS-TN-180
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N63-21455	22-16	JPRS-21133
N63-21456	22-29	NASA-EP-12
N63-21457	22-09	NRL-5972
N63-21458	22-20	RADC-TDR-63-301
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N63-21460	22-19	NO REPORT NUMBER
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N63-21465	22-08	SELWS-E-101
N63-21466	22-06	NO REPORT NUMBER
N63-21467	22-18	HW-78178
N63-21468	22-18	HW-78132
N63-21469	22-25	RR-TN-63-2
N63-21470	22-23	ORNL-3486
N63-21471	22-16	ORNL-3483
N63-21472	22-08	AFCRL-63-330
N63-21473	22-21	IRIG-MWG-19-63
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N63-21476	22-29	NO REPORT NUMBER
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N63-21478	22-18	IITRI-86007-4
N63-21479	22-29	NASA-CR-50966
N63-21480	22-29	JPL-TR-32-423
N63-21481	22-28	NASA-CR-51275
N63-21482	22-04	NO REPORT NUMBER

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N63-21486	22-23	NO REPORT NUMBER
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N63-21549	22-13	AGARD-211
N63-21550	22-06	RADC-TDR-63-300, VOL. II
N63-21551	22-06	RADC-TDR-63-300, VOL. I
N63-21552	22-24	TR-63-2178
N63-21553	22-04	R-219
N63-21554	22-16	NO REPORT NUMBER
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N63-21646	22-29	NASA-CR-51346
N63-21647	22-32	NASA-CR-51225
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N63-21653	22-18	IS-662
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N63-21678	22-26	BMI-1647
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N63-21680	22-16	AAL-TDR-62-57
N63-21681	22-16	AAL-TDR-62-11
N63-21682	22-16	AAL-TDR-62-59
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N63-21686	22-15	RSIC-56
N63-21687	22-21	RSIC-61
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N63-21690	22-09	NO REPORT NUMBER
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N63-21692	22-02	ASD-TDR-63-334, PT. III
N63-21693	22-02	ASD-TDR-63-334, PT. II
N63-21694	22-02	ASD-TDR-63-334, PT. I
N63-21695	22-20	AROD-2934-2
N63-21696	22-20	DI-82-0228
N63-21697	22-19	BM-RI-6295
N63-21698	22-14	ESD-TDR-62-305
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N63-21714	22-18	BMI-1636
N63-21715	22-23	AROD-2986-1
N63-21716	22-21	MO-744
N63-21717	22-15	GDR-63039
N63-21718	22-21	ERDA-50
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N63-21720	22-33	NLR-TN-M.2104
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N63-21725	22-20	NASA-CR-50942
N63-21726	22-30	NASA-TM-X-50558
N63-21727	22-06	NASA-CR-55125
N63-21728	22-22	NASA-TM-X-50407
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N63-21794	22-09	DS-102
N63-21795	22-19	AMRA-TR-63-02
N63-21796	22-09	AMRA-TR-63-05
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N63-21798	22-09	RADC-TDR-63-338
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N63-21886	22-18	A080
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N63-22020	22-24	NO REPORT NUMBER
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N63-22030	22-32	NASA-CR-51555
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N63-22033	22-29	NASA-EP-14
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N63-22035	22-33	AIAA PAPER-2901-63
N63-22036	22-01	AIAA PAPER-63087
N63-22037	22-29	AIAA PAPER-63059-63
N63-22038	22-07	NO REPORT NUMBER
N63-22039	22-09	NO REPORT NUMBER
N63-22040	22-18	ASD-TDR-63-90
N63-22041	22-09	IER SER. 60, ISSUE 455
N63-22042	22-33	NO REPORT NUMBER
N63-22043	22-26	A&ES-63-4
N63-22044	22-04	NO REPORT NUMBER
N63-22045	22-09	ER-2918, REV.
N63-22046	22-09	AFCRL-63-307
N63-22047	22-11	NASA-CR-51515
N63-22048	22-11	NASA-CR-51517
N63-22049	22-11	NO REPORT NUMBER
N63-22050	22-29	NO REPORT NUMBER
N63-22051	22-03	ARC-CP-653
N63-22052	22-19	NASA-TM-X-50354
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N63-22056	22-14	NO REPORT NUMBER
N63-22057	22-18	IITRI-8231-9
N63-22058	22-18	IITRI-86001-5
N63-22059	22-33	A&ES-63-5
N63-22060	22-02	A&ES-63-6
N63-22061	22-05	A&ES-63-8
N63-22062	22-02	ARL/A-193
N63-22063	22-18	ARL/MET-48
N63-22064	22-33	ARL/SM 291
N63-22065	22-23	RADC-TDR-63-258
N63-22066	22-24	RADC-TDR-63-267
N63-22067	22-09	RADC-TDR-63-297
N63-22068	22-09	RADC-TDR-63-298
N63-22069	22-09	RADC-TDR-63-317
N63-22070	22-23	BMI-1638
N63-22071	22-26	BMI-1643
N63-22072	22-19	HW-76301
N63-22073	22-18	HW-77954
N63-22074	22-09	NO REPORT NUMBER
N63-22075	22-06	NO REPORT NUMBER[9]
N63-22076	22-16	SAM-TDR-62-141
N63-22077	22-16	SAM-TDR-63-25
N63-22078	22-16	SAM-TDR-63-34
N63-22079	22-12	R63SD34
N63-22080	22-19	R63SD76
N63-22081	22-09	AFCRL-63-336
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N63-22083	22-09	NO REPORT NUMBER
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N63-22087	22-26	NO REPORT NUMBER
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N63-22090	22-06	SCR-998
N63-22091	22-11	AEDC-TDR-63-192
N63-22092	22-12	AFCRL-63-844
N63-22093	22-16	NAA-SR-7909
N63-22094	22-09	NO REPORT NUMBER
N63-22095	22-11	TR-1106
N63-22096	22-18	PF-63-9
N63-22097	22-21	JPRS-20716
N63-22098	22-29	JPRS-20892
N63-22099	22-16	JPRS-21053
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N63-22103	22-18	JPRS-21187
N63-22104	22-16	JPRS-21189
N63-22105	22-09	JPRS-21222
N63-22106	22-16	JPRS-21235
N63-22107	22-06	JPRS-21241
N63-22108	22-23	JPRS-21243
N63-22109	22-18	JPRS-21244
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N63-22111	22-13	NASA-TN-D-1878
N63-22112	22-18	NASA-TN-D-1881
N63-22113	22-29	NASA-TN-D-1901
N63-22114	22-11	NASA-TN-D-1953
N63-22115	22-02	NASA-TN-D-1963
N63-22116	22-03	NASA-TN-D-1971
N63-22117	22-04	NASA-TN-D-2090
N63-22118	22-29	NO REPORT NUMBER
N63-22119	22-09	RADC-TDR-63-330
N63-22120	22-11	NO REPORT NUMBER
N63-22121	22-09	RADC-TDR-63-325
N63-22122	22-25	AFCRL-63-361
N63-22123	22-11	MB-R-63-14
N63-22124	22-18	NO REPORT NUMBER
N63-22125	22-19	WADD-TR-61-72,V. XV
N63-22126	22-23	RTD-TDR-63-3023
N63-22127	22-18	ASD-TDR-62-25, PT. 2
N63-22128	22-04	NO REPORT NUMBER
N63-22129	22-23	REIC-30
N63-22130	22-07	ASD-TDR-63-325
N63-22131	22-09	RADC-TDR-63-394
N63-22132	22-08	NAVWEPS-8146
N63-22133	22-25	ATN-64/9236/-3
N63-22134	22-11	SM-43059
N63-22135	22-24	AFCRL-62-895
N63-22136	22-14	NASA-TN-D-1952
N63-22137	22-04	NASA-CR-51704
N63-22138	22-06	NASA-CR-51397
N63-22139	22-02	NASA-CR-51300
N63-22140	22-13	NASA-CR-51299
N63-22141	22-20	NASA-CR-51319
N63-22142	22-06	NASA-CR-51544
N63-22143	22-11	ARL-63-117
N63-22144	22-11	ARL-63-133
N63-22145	22-11	ARL-63-161
N63-22146	22-24	ARL-63-166
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N63-22148		ACC. NO. NOT USED
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N63-22151	22-14	NO REPORT NUMBER
N63-22152	22-23	JPRS-20754
N63-22153	22-08	ESD-TDR-63-224
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N63-22155	22-16	LMSC-3-06-63-1
N63-22156	22-19	AROD-2770-3
N63-22157	22-29	NASA-CR-51421
N63-22158	22-26	NASA-CR-51520
N63-22159	22-27	NASA-CR-51521
N63-22160	22-19	NO REPORT NUMBER
N63-22161	22-26	NASA-CR-51733
N63-22162	23-20	NASA-TN-D-1737
N63-22163	23-11	NPL-AERO-1035
N63-22164	23-12	AID-P-63-98
N63-22165	23-32	NASA-CR-51422
N63-22166	23-06	NASA-CR-51514
N63-22167	23-23	NASA-CR-51371
N63-22168	23-04	NASA-TM-X-50303
N63-22169	23-32	NASA-TM-X-50364
N63-22170	23-32	NASA-TM-X-50335
N63-22171	23-04	NASA-CR-50971
N63-22172	23-28	NASA-TM-X-50725
N63-22173	23-29	NASA-TM-X-50816
N63-22174	23-32	NASA-CR-51729
N63-22175	23-08	JPRS-21261
N63-22176	23-18	NO REPORT NUMBER
N63-22177	23-23	IDO-28612
N63-22178	23-30	NO REPORT NUMBER
N63-22179	23-10	NO REPORT NUMBER
N63-22180	23-26	SC-4790/RR/
N63-22181	23-20	NO REPORT NUMBER
N63-22182	23-25	NO REPORT NUMBER
N63-22183	23-09	NO REPORT NUMBER
N63-22184	23-09	USNRDL-TR-664
N63-22185	23-23	USNRDL-TR-667
N63-22186	23-26	NOLTR-63-136
N63-22187	23-15	BALLISTICS RES. REPT.-109
N63-22188	23-11	AERODYNAMICS RES. REPT.-201
N63-22189	23-19	NOLTR-63-153
N63-22190	23-08	AFCRL-63-677
N63-22191	23-08	AFCRL-63-316, PT. 2
N63-22192	23-08	AFCRL-63-300
N63-22193	23-16	NASA-CR-51526
N63-22194	23-11	ARL-63-88
N63-22195	23-02	ARL-63-102
N63-22196	23-02	NASA-TM-X-50866
N63-22197	23-08	NO REPORT NUMBER
N63-22198	23-24	ARL-63-150
N63-22199	23-18	AFCRL-63-372
N63-22200	23-11	AVCO-EVERETT RES. REPT.-155
N63-22201	23-25	AVCO-EVERETT RES. REPT.-161
N63-22202	23-25	AVCO-EVERETT RES. REPT.-162

N63-22203	23-04	NMC-TM-62-22
N63-22204	23-02	NO REPORT NUMBER
N63-22205	23-29	RAE-TN-SPACE-38
N63-22206	23-32	RAE-TN-SPACE-39
N63-22207	23-18	ARC-CP-506
N63-22208	23-03	ARC-CP-618
N63-22209	23-33	ARC-CP-644
N63-22210	23-18	ARC-CP-655
N63-22211	23-33	RAE-R-STRUCT-278
N63-22212	23-04	ARC-CP-689
N63-22213	23-17	RAE-TM-SPACE-19
N63-22214	23-02	ARC-R&M-3323
N63-22215	23-33	RAE-R-STRUCT-261
N63-22216	23-25	PA-TR-3102
N63-22217	23-18	GEAP-4192
N63-22218	23-23	TID-3575
N63-22219	23-23	TID-3564/REV. 1/
N63-22220	23-18	TID-3572
N63-22221	23-18	TID-17940
N63-22222	23-10	NO REPORT NUMBER
N63-22223	23-08	RADC-RAL-TN-63-11
N63-22224	23-11	NYO-10432
N63-22225	23-10	ORNL-3478
N63-22226	23-16	ORNL-3492
N63-22227	23-23	ORNL-3493
N63-22228	23-08	AFCRL-63-359
N63-22229	23-23	DAVIDSON LAB. REPT.-888
N63-22230	23-08	SP16-A63
N63-22231	23-04	AERONAUTICAL ENG. REPT.-653
N63-22232	23-23	BNL-794/T-303/
N63-22233	23-07	BNL-800/T-307/
N63-22234	23-09	NO REPORT NUMBER
N63-22235	23-18	BM-RI-6308
N63-22236	23-11	BALLISTICS RES. REPT.-79
N63-22237	23-11	ARL-63-85
N63-22238	23-23	NYO-10430
N63-22239	23-19	BM-RI-6304
N63-22240	23-13	NOLTR-63-174
N63-22241	23-21	NO REPORT NUMBER
N63-22242	23-25	ARL-63-139
N63-22243	23-11	DASA-1397
N63-22244	23-23	KN-674-63-7/R/
N63-22245	23-03	R-1624-5
N63-22246	23-09	NASA-CR-50939
N63-22247	23-24	NASA-CR-51574
N63-22248	23-04	FFM-57
N63-22249	23-15	DFL-207
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N63-22254	23-18	NO REPORT NUMBER
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N63-22257	23-16	NO REPORT NUMBER
N63-22258	23-25	NO REPORT NUMBER
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N63-22261	23-15	NO REPORT NUMBER
N63-22262	23-25	NO REPORT NUMBER
N63-22263	23-09	NO REPORT NUMBER
N63-22264	23-01	NASA-TT-F-81
N63-22265	23-03	NO REPORT NUMBER
N63-22266	23-02	MP-146
N63-22267	23-33	NO REPORT NUMBER
N63-22268	23-02	NO REPORT NUMBER
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N63-22270	23-04	NO REPORT NUMBER
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N63-22272	23-05	NO REPORT NUMBER
N63-22273	23-29	NO REPORT NUMBER
N63-22274	23-05	MIT-TR-412
N63-22275	23-09	NO REPORT NUMBER
N63-22276	23-23	RFP-326
N63-22277	23-22	NASA-TM-X-50843
N63-22278	23-02	U-2257
N63-22279	23-26	U-2276
N63-22280	23-01	IDA/HQ-63-1412
N63-22281	23-06	NO REPORT NUMBER
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N63-22296	23-16	JPRS-21050
N63-22297	23-16	NO REPORT NUMBER
N63-22298	23-09	FFIK-IR-K-E-10
N63-22299	23-12	NORE-46
N63-22300	23-09	RPU-S12
N63-22301	23-01	TID-7653 /PT. 1/
N63-22302	23-27	NO REPORT NUMBER
N63-22303	23-27	NO REPORT NUMBER
N63-22304	23-27	RM-2940-PR
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N63-22322	23-27	NO REPORT NUMBER
N63-22323	23-24	MATT-205
N63-22324	23-04	PIBMRI-1147-63
N63-22325	23-03	FLIGHT SCIENCES LAB. TR-79
N63-22326	23-20	NO REPORT NUMBER
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N63-22328	23-12	NO REPORT NUMBER
N63-22329	23-11	LMSC-TR-3-80-61-2
N63-22330	23-01	NO REPORT NUMBER
N63-22331	23-09	NO REPORT NUMBER
N63-22332	23-10	NO REPORT NUMBER
N63-22333	23-13	NO REPORT NUMBER
N63-22334	23-02	NO REPORT NUMBER
N63-22335	23-11	NO REPORT NUMBER
N63-22336	23-11	NO REPORT NUMBER
N63-22337	23-02	NR-062-265
N63-22338	23-11	NO REPORT NUMBER
N63-22339	23-11	ARL-63-167
N63-22340	23-09	NO REPORT NUMBER
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N63-22345	23-23	NO REPORT NUMBER
N63-22346	23-23	ARL-63-127
N63-22347	23-26	ARL-63-157
N63-22348	23-16	NO REPORT NUMBER
N63-22349	23-09	PP-T-9672-2
N63-22350	23-09	TR-1162
N63-22351	23-23	NOLTR-63-192
N63-22352	23-24	LMSC SB-61-56
N63-22353	23-09	NASA-CR-51530
N63-22354	23-23	UCRL-2426, VOL. III
N63-22355	23-23	UCRL-10331
N63-22356	23-07	UCRL-10886
N63-22357	23-09	UCRL-10898
N63-22358	23-26	CPIA PUBL. 28
N63-22359	23-16	NAA-SR-8303
N63-22360	23-09	AFCRL-63-331
N63-22361	23-11	COA-N-140
N63-22362	23-09	NO REPORT NUMBER
N63-22363	23-09	NO REPORT NUMBER
N63-22364	23-09	NO REPORT NUMBER
N63-22365	23-12	AFCRL-63-615
N63-22366	23-16	JPRS-21171
N63-22367	23-16	NO REPORT NUMBER
N63-22368	23-16	NO REPORT NUMBER
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N63-22373	23-18	NO REPORT NUMBER
N63-22374	23-29	NO REPORT NUMBER
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N63-22376	23-04	TRECOM-TR-63-53
N63-22377	23-24	LA-2940
N63-22378	23-18	LAMS-2952
N63-22379	23-12	B-2596
N63-22380	23-02	RTD-TDR-63-1036
N63-22381	23-20	BRL-1209
N63-22382	23-02	TN-AE-14-62

N63-22383	23-05	NO REPORT NUMBER
N63-22384	23-24	AFCRL-63-195
N63-22385	23-19	AFCRL-63-857
N63-22386	23-07	AFCRL-63-858
N63-22387	23-19	AFCRL-63-859
N63-22388	23-27	ARC-R&M-3320
N63-22389	23-12	BNL-784/T-298/
N63-22390	23-06	ASD-TDR-63-85
N63-22391	23-17	ASD-TDR-63-491
N63-22392	23-14	AMRL-TDR-63-29
N63-22393	23-29	NASA-TM-X-50804
N63-22394	23-34	PA-TM-1206
N63-22395	23-15	CAL-129
N63-22396	23-07	AROD-2650-4
N63-22397	23-07	ARL-63-160
N63-22398	23-13	NO REPORT NUMBER
N63-22399	23-23	NO REPORT NUMBER
N63-22400	23-27	ASD-TDR-63-750
N63-22401	23-27	NO REPORT NUMBER
N63-22402	23-19	HW-77799
N63-22403	23-23	HW-76263
N63-22404	23-24	RADC-TDR-63-240
N63-22405	23-08	RADC-TDR-63-358
N63-22406	23-09	RADC-TDR-63-365
N63-22407	23-19	ONR-TR-60
N63-22408	23-19	ONR-TR-61
N63-22409	23-19	ONR-TR-62
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N63-22411	23-16	NO REPORT NUMBER
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N63-22413	23-24	UTIA-TN-58
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N63-22415		ACC. NO. NOT USED
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N63-22417	23-21	MR163-FR-71, PT. B
N63-22418	23-19	NO REPORT NUMBER
N63-22419	23-24	R63SD78
N63-22420	23-11	R63SD79
N63-22421	23-13	NO REPORT NUMBER
N63-22422	23-08	ESD-TDR-63-609
N63-22423	23-18	HW-71570
N63-22424	23-18	HW-78574
N63-22425	23-11	GA-4506
N63-22426	23-16	NADC-MA-6313
N63-22427	23-16	NADC-MA-6314
N63-22428	23-16	NADC-MA-6315
N63-22429	23-09	RADC-TDR-63-399
N63-22430	23-11	AROD-2303-4
N63-22431	23-11	AROD-2303-1
N63-22432	23-16	JPRS-20988
N63-22433	23-16	JPRS-21034
N63-22434	23-16	JPRS-21038
N63-22435	23-16	JPRS-21067
N63-22436	23-12	JPRS-21163
N63-22437	23-17	RIA-63-2041
N63-22438	23-02	AEDC-TDR-63-203
N63-22439	23-26	F-63-2
N63-22440	23-12	AID-P-63-107
N63-22441	23-21	AFCRL-63-694
N63-22442	23-08	NO REPORT NUMBER
N63-22443	23-08	NO REPORT NUMBER
N63-22444	23-18	DMIC-MEMO-172
N63-22445	23-27	ASD-TDR-63-428, PT. II
N63-22446	23-27	ASD-TDR-63-428, PT. I
N63-22447	23-13	PIBAL-670
N63-22448	23-24	RADC-TDR-63-368
N63-22449	23-29	NO REPORT NUMBER
N63-22450	23-29	NO REPORT NUMBER
N63-22451	23-27	NO REPORT NUMBER
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N63-22453	23-12	NASA-RP-35
N63-22454	23-27	NO REPORT NUMBER
N63-22455	23-11	RF-TR-63-18
N63-22456	23-08	RG-TR-63-13
N63-22457	23-11	RG-TR-63-15
N63-22458	23-09	RG-TR-63-16
N63-22459	23-24	RR-TR-63-14
N63-22460	23-23	RSIC-46
N63-22461	23-21	RSIC-55
N63-22462	23-21	RSIC-58
N63-22463	23-23	RSIC-60
N63-22464	23-12	AFCRL-63-848
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N63-22466	23-11	AE-175, ISSUE 2
N63-22467	23-11	TIL/T-5352
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N63-22469	23-21	AFCRL-63-836
N63-22470	23-18	BM-RI-6301
N63-22471	23-18	BM-RI-6303
N63-22472	23-23	LAMS-2941
N63-22473	23-23	URPA-2
N63-22474	23-23	URPA-3
N63-22475	23-12	AFCRL-63-861
N63-22476	23-08	DR-31
N63-22477	23-26	BM-IC-8137
N63-22478	23-11	LA-2910
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N63-22481	23-23	SLAC-18
N63-22482	23-24	NO REPORT NUMBER
N63-22483		ACC. NO. NOT USED
N63-22484		ACC. NO. NOT USED
N63-22485	23-33	ASD-TDR-63-852, VOL. I
N63-22486	23-33	ASD-TDR-63-674
N63-22487	23-02	NO REPORT NUMBER
N63-22488	23-07	NO REPORT NUMBER
N63-22489	23-19	NO REPORT NUMBER
N63-22490	23-19	NOLTR-63-91
N63-22491	23-19	NOLTR-63-113
N63-22492	23-19	NOLTR-63-154
N63-22493	23-23	NOLTR-63-158
N63-22494	23-02	NOLTR-63-163
N63-22495	23-23	ARL-63-105
N63-22496	23-18	ARL-63-124
N63-22497	23-25	ARL-63-126
N63-22498	23-20	ARL-63-144
N63-22499	23-19	ARL-63-152
N63-22500	23-24	ARL-63-159
N63-22501	23-09	ARL-63-163
N63-22502	23-16	USNRDL-TR-661
N63-22503	23-23	USNRDL-TR-663
N63-22504	23-19	NO REPORT NUMBER
N63-22505	23-23	NO REPORT NUMBER
N63-22506	23-23	AFCRL-63-883
N63-22507	23-24	TDR-269/4280-20/-1
N63-22508	23-28	AFCRL-63-356
N63-22509	23-19	JPL-TR-32-436
N63-22510	23-08	NASA-CR-51787
N63-22511	23-11	NASA-TM-X-50944
N63-22512	23-29	NASA-CR-51990
N63-22513	23-09	RG-TN-63-5
N63-22514	23-08	RG-TR-63-17
N63-22515	23-02	NO REPORT NUMBER
N63-22516	23-09	RADC-RAU-TM-63-3
N63-22517	23-20	RADC-RAU-TM-63-5
N63-22518	23-18	NAVWEPS-7198 /REV./
N63-22519	23-07	NO REPORT NUMBER
N63-22520	23-09	NO REPORT NUMBER
N63-22521	23-14	AMRL-TDR-63-79
N63-22522	23-20	BRL-855
N63-22523	23-21	TN-WP-21-63
N63-22524	23-21	TN-WP-22-63
N63-22525	23-11	BBN-1054
N63-22526	23-11	SSD-3418R
N63-22527	23-11	NO REPORT NUMBER
N63-22528	23-13	NO REPORT NUMBER
N63-22529	23-33	NO REPORT NUMBER
N63-22530	23-33	NO REPORT NUMBER
N63-22531	23-09	ESD-TDR-63-440
N63-22532	23-32	NO REPORT NUMBER
N63-22533	23-30	NO REPORT NUMBER
N63-22534	23-04	NO REPORT NUMBER
N63-22535	23-16	NO REPORT NUMBER
N63-22536	23-19	NO REPORT NUMBER
N63-22537	23-18	NO REPORT NUMBER
N63-22538	23-18	NASA-TM-X-50955
N63-22539	23-02	NO REPORT NUMBER
N63-22540	23-09	NO REPORT NUMBER
N63-22541	23-19	ORNL-RMIC-1
N63-22542	23-19	NO REPORT NUMBER
N63-22543	23-19	NO REPORT NUMBER
N63-22544	23-19	NO REPORT NUMBER
N63-22545	23-19	NO REPORT NUMBER
N63-22546	23-19	NO REPORT NUMBER
N63-22547	23-09	RADC-TDR-63-326
N63-22548	23-09	NO REPORT NUMBER
N63-22549	23-09	NO REPORT NUMBER
N63-22550	23-20	CERN-63-16
N63-22551	23-23	CERN-63-18
N63-22552	23-20	CERN-63-21
N63-22553	23-16	JPRS-21170
N63-22554	23-16	NO REPORT NUMBER
N63-22555	23-16	NO REPORT NUMBER
N63-22556	23-20	NYU-TR-400-80
N63-22557	23-18	NO REPORT NUMBER
N63-22558	23-15	RSIC-57
N63-22559	23-23	RSIC-65
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N63-22561	23-23	UCRL-6989
N63-22562	23-20	R-59

N63-22563	23-30	R-65
N63-22564	23-18	AROD-2530-2
N63-22565	23-23	ANL-6780
N63-22566	23-11	SM-42998
N63-22567	23-24	TDR-169/3230-11/TN-12
N63-22568	23-33	SSD-TDR-63-157
N63-22569	23-30	SSD-TDR-63-210
N63-22570	23-24	AROD-2836-1
N63-22571	23-09	NO REPORT NUMBER
N63-22572	23-09	NASA-TN-D-1992
N63-22573	23-16	JPRS-21246
N63-22574	23-27	NO REPORT NUMBER
N63-22575	23-19	FTD-TT-62-911/1&2
N63-22576	23-07	LMSC-SB-63-32
N63-22577	23-06	NASA-CR-51779
N63-22578	23-23	NASA-CR-51807
N63-22579	23-07	NASA-CR-51790
N63-22580	23-07	NASA-CR-51791
N63-22581	23-30	NASA-CR-51783
N63-22582	23-33	NASA-CR-51762
N63-22583	23-12	NASA-TM-X-50842
N63-22584	23-26	NASA-CR-51566
N63-22585	23-06	NASA-CR-51596
N63-22586	23-27	NASA-CR-51567
N63-22587	23-16	JPRS-20997
N63-22588	23-16	JPRS-21200
N63-22589	23-12	JPRS-21277
N63-22590	23-07	ARL-63-134
N63-22591	23-29	ASD-TDR-63-454
N63-22592	23-13	ASD-TDR-63-574
N63-22593	23-33	ASD-TDR-63-647
N63-22594	23-08	AMRL-TDR-63-74
N63-22595	23-20	AMRL-TDR-63-78
N63-22596	23-08	AMRL-TDR-62-115/II/
N63-22597	23-13	WADD-TR-60-370, PART III
N63-22598	23-26	NASA-TN-D-1892
N63-22599		ACC. NO. NOT USED
N63-22600	23-02	NASA-TN-D-1982
N63-22601	23-23	NASA-TN-D-1993
N63-22602	23-12	NASA-TT-F-179
N63-22603	23-23	UCRL-7427
N63-22604	23-09	RE-TR-63-7
N63-22605	23-21	KE-TR-63-13
N63-22606	23-16	NO REPORT NUMBER
N63-22607	23-07	RK-TR-63-20
N63-22608	23-23	RR-TR-63-10
N63-22609	23-22	RT-TR-63-4
N63-22610	23-23	BRL-1188
N63-22611	23-11	RSIC-66
N63-22612	23-27	RSIC-67
N63-22613	23-11	AEDC-TDR-63-195
N63-22614	23-09	ARC-R-107
N63-22615	23-16	AMRL-TDR-63-71
N63-22616	23-20	MRC-406
N63-22617	23-33	NO REPORT NUMBER
N63-22618	23-33	NO REPORT NUMBER
N63-22619	23-23	IITRI-1194-13
N63-22620	23-07	NO REPORT NUMBER
N63-22621	23-20	BRL-1207
N63-22622	23-23	BMI-1642/DEL./
N63-22623	23-01	BMI-1648
N63-22624	23-02	NO REPORT NUMBER
N63-22625	23-11	NO REPORT NUMBER
N63-22626	23-10	NO REPORT NUMBER
N63-22627	23-20	NO REPORT NUMBER
N63-22628	23-20	NO REPORT NUMBER
N63-22629	23-20	NO REPORT NUMBER
N63-22630	23-12	EG&G-B-2602
N63-22631	23-19	Q445-2
N63-22632	23-09	Q445-3
N63-22633	23-09	Q445-4
N63-22634	23-23	REIC-31, PT. I
N63-22635	23-23	REIC-31, PT. II
N63-22636	23-16	REIC-33
N63-22637	23-27	RTD-TDR-63-1027
N63-22638	23-23	ASD-TDR-63-41
N63-22639	23-10	CRREL-III-A4
N63-22640	23-04	NO REPORT NUMBER
N63-22641	23-12	AFCRL-63-987
N63-22642	23-18	NO REPORT NUMBER
N63-22643	23-18	NO REPORT NUMBER
N63-22644	23-18	NO REPORT NUMBER
N63-22645	23-09	MRC-395
N63-22646	23-20	MRC-404
N63-22647	23-20	MRC-407
N63-22648	23-20	MRC-412
N63-22649	23-20	MRC-413
N63-22650	23-20	MRC-415
N63-22651	23-09	W-J-63-615R10
N63-22652	23-02	NO REPORT NUMBER
N63-22653	23-15	NO REPORT NUMBER
N63-22654	23-11	AFCRL-63-354
N63-22655	23-16	HW-76351, REV.
N63-22656	23-23	HW-78118
N63-22657	23-23	HW-78274
N63-22658	23-16	JPRS-21204
N63-22659	23-12	JPRS-21273
N63-22660	23-14	JPRS-21286
N63-22661	23-23	NAA-SR-8377
N63-22662	23-13	NAA-SR-8538
N63-22663	23-08	NRL-5902
N63-22664	23-16	SAM-TDR-63-14
N63-22665		ACC. NO. NOT USED
N63-22666	23-16	SAM-TDR-63-41
N63-22667	23-14	SAM-TDR-63-53
N63-22668	23-16	UCLA-517
N63-22669	23-18	UCRL-10701
N63-22670	23-23	USAELRDL-TN-2306
N63-22671	23-11	UTIA-TM-67
N63-22672	23-10	SR-AE-1-63
N63-22673	23-23	WAPD-TM-313
N63-22674	23-14	NO REPORT NUMBER
N63-22675	23-26	NAA-SR-8263
N63-22676	23-09	AFCRL-63-329
N63-22677	23-24	SEL-63-066
N63-22678	23-09	SEL-63-082
N63-22679	23-18	NO REPORT NUMBER
N63-22680	23-23	NO REPORT NUMBER
N63-22681	23-10	RADC-TDR-63-347
N63-22682	23-14	AMRL-TDR-63-68 /I/
N63-22683	23-19	RSIC-41
N63-22684	23-03	TRECOM-TR-63-26
N63-22685	23-32	NASA-CR-51963
N63-22686	23-01	NO REPORT NUMBER
N63-22687	23-29	NO REPORT NUMBER
N63-22688	23-29	NO REPORT NUMBER
N63-22689	23-24	NO REPORT NUMBER
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N63-22692	23-09	NO REPORT NUMBER
N63-22693	23-19	NO REPORT NUMBER
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N63-22697	23-13	NO REPORT NUMBER
N63-22698	23-28	NO REPORT NUMBER
N63-22699	23-06	NO REPORT NUMBER
N63-22700	23-09	NO REPORT NUMBER
N63-22701	23-01	NO REPORT NUMBER
N63-22702	23-32	NASA-CR-51964
N63-22703	23-09	NASA-CR-51584
N63-22704	23-20	NO REPORT NUMBER
N63-22705	23-23	NASA-TN-D-146-III/A/
N63-22706	23-23	NASA-TN-D-146-III/B/
N63-22707	23-23	NASA-TN-D-146-III/C/
N63-22708	23-22	NASA-TN-D-1812
N63-22709	23-09	NASA-TN-D-1840
N63-22710	23-05	NASA-TN-D-1907
N63-22711	23-02	NASA-TN-D-1908
N63-22712	23-13	NASA-TN-D-1960
N63-22713	23-17	NASA-TN-D-1994
N63-22714	23-16	AAL-TDR-62-58
N63-22715	23-16	AAL-TDR-63-5
N63-22716	23-16	AAL-TDR-63-6
N63-22717	23-14	AAL-TDR-63-14
N63-22718	23-10	AAL-TDR-63-18
N63-22719	23-16	AAL-TN-62-10
N63-22720	23-21	ERDA-51
N63-22721	23-21	ERDA-52
N63-22722	23-18	WAL-TR-405/2-2
N63-22723	23-19	ASD-TR-7-995/IV/
N63-22724	23-15	AFCRL-63-842
N63-22725	23-09	NO REPORT NUMBER
N63-22726	23-09	NSSP-17
N63-22727	23-26	RTD-TDR-63-1069
N63-22728	23-24	SB-63-21
N63-22729	23-34	SB-63-36
N63-22730	23-34	SB-63-40
N63-22731	23-30	SP-1022
N63-22732	23-23	APDA-154
N63-22733	23-27	RTD-TDR-63-1038
N63-22734	23-23	AFCRL-63-358
N63-22735	23-05	NO REPORT NUMBER
N63-22736	23-05	NO REPORT NUMBER
N63-22737	23-05	NO REPORT NUMBER
N63-22738	23-05	NO REPORT NUMBER
N63-22739	23-05	NO REPORT NUMBER
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N63-22741	23-23	NO REPORT NUMBER
N63-22742	23-20	NO REPORT NUMBER

N63-22743	23-23	NO REPORT NUMBER
N63-22744	23-20	ARL-63-186
N63-22745	23-23	AROD-1325-17
N63-22746	23-26	AECL-1819
N63-22747	23-23	CARDE-TN-1524
N63-22748	23-12	CPD-1962/5/W/
N63-22749	23-33	NO REPORT NUMBER
N63-22750	23-12	NO REPORT NUMBER
N63-22751	23-01	NO REPORT NUMBER
N63-22752	23-11	CAL-87-P
N63-22753	23-09	JHU-22-P
N63-22754	23-20	ANL-6699
N63-22755	23-23	ANL-6730
N63-22756	23-11	ANL-6710
N63-22757	23-11	ANL-6741
N63-22758	23-02	ANL-6754
N63-22759	23-27	ANL-6656
N63-22760	23-23	IDO-16899
N63-22761	23-04	NO REPORT NUMBER
N63-22762	23-23	DVL-264
N63-22763	23-15	AFCRL-63-602
N63-22764	23-12	CPD-1962/4/W/
N63-22765	23-08	AFCRL-63-489
N63-22766	23-15	AECL-1801
N63-22767	23-23	SB-63-31
N63-22768	23-14	AAL-TDR-63-24
N63-22769	23-03	DTMB-AERO-1057
N63-22770	23-13	DTMB-AERO-1061
N63-22771	23-06	SID-62-708
N63-22772	23-09	SID-63-60
N63-22773	23-29	SID-63-347
N63-22774	23-24	NO REPORT NUMBER
N63-22775	23-29	NO REPORT NUMBER
N63-22776	23-30	NO REPORT NUMBER
N63-22777	23-29	NO REPORT NUMBER
N63-22778	23-13	GEMP-26A
N63-22779	23-23	ISS-63/7 RIST.
N63-22780	23-23	ISS-63/8 RIST.
N63-22781	23-23	ISS-63/36
N63-22782		ACC. NO. NOT USED
N63-22783	23-21	ERDA-70
N63-22784	23-01	NO REPORT NUMBER
N63-22785	23-14	TM-339-84
N63-22786	23-18	NO REPORT NUMBER
N63-22787	23-23	NYO-10178
N63-22788	23-11	EOS-RN-61
N63-22789	23-09	NO REPORT NUMBER
N63-22790	23-09	B-2
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N63-22794	23-09	NO REPORT NUMBER
N63-22795	23-26	NO REPORT NUMBER
N63-22796	23-11	RR-40
N63-22797	23-33	RR-44
N63-22798	23-12	SEL-63-063
N63-22799	23-12	ARL-1357-1
N63-22800	23-23	AFCRL-63-697
N63-22801	23-12	AFCRL-63-886
N63-22802	23-12	AFCRL-63-894
N63-22803	23-29	AFCRL-63-895
N63-22804	23-18	NO REPORT NUMBER
N63-22805	23-29	NO REPORT NUMBER
N63-22806	23-32	NASA-CR-4
N63-22807	23-32	SB-63-27
N63-22808	23-14	NO REPORT NUMBER
N63-22809	23-13	RPI-61
N63-22810	23-23	NUP-63-10
N63-22811	23-19	NO REPORT NUMBER
N63-22812	23-23	AFCRL-63-877
N63-22813	23-33	AES-63-3
N63-22814	23-23	FA-M64-5-1
N63-22815	23-17	FA-R-1685
N63-22816	23-19	NAA-SR-8108
N63-22817	23-18	DMIC-MEMO-173
N63-22818	23-18	DMIC-MEMO-174
N63-22819	23-18	DMIC-MEMO-175
N63-22820	23-18	ER-5498
N63-22821	23-09	RADC-TDR-63-350
N63-22822	23-19	RIA-63-2402
N63-22823	23-19	RIA-63-2392
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N63-22828	23-14	SAM-TDR-63-62
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N63-22831	23-23	UCRL-10516
N63-22832	23-13	CTR.00-272
N63-22833	23-19	AFCRL-63-308
N63-22834	23-23	ANL-5800
N63-22835	23-23	NYO-9539
N63-22836	23-10	TG-461
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N63-22841	23-32	NO REPORT NUMBER
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N63-22844	23-07	NO REPORT NUMBER
N63-22845	23-19	NO REPORT NUMBER
N63-22846	23-09	AVCO-EVERETT RES. REPT.-160
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N63-22848	23-01	NO REPORT NUMBER
N63-22849	23-26	U-2289
N63-22850	23-02	NAEC-ASL-1063
N63-22851	23-23	AERE-R-4218
N63-22852	23-25	EUR-358.I
N63-22853	23-03	ARC-CP-621
N63-22854	23-11	ARC-CP-635
N63-22855	23-05	NO REPORT NUMBER
N63-22856	23-01	NO REPORT NUMBER
N63-22857	23-32	AD-410085
N63-22858	23-23	CU/PNPL/-227
N63-22859	23-20	NO REPORT NUMBER
N63-22860	23-23	IPST-CAT. 201
N63-22861	23-06	NASA-TN-D-2061
N63-22862	23-13	NASA-TR-R-132
N63-22863	23-16	NASA-TT-F-156
N63-22864	23-27	NASA-CR-52044
N63-22865	23-27	NASA-CR-52076
N63-22866	23-10	F-8298
N63-22867	23-09	PIBMRI-1143-63
N63-22868	23-23	RSIC-52
N63-22869	23-23	RSIC-64
N63-22870	23-18	ESRD 13-13
N63-22871	23-11	R61SD105
N63-22872	23-20	CAL-VE-1512-G-1
N63-22873	23-12	NO REPORT NUMBER
N63-22874	23-12	NO REPORT NUMBER
N63-22875	23-24	NASA-CR-51825
N63-22876	23-23	NO REPORT NUMBER
N63-22877	23-08	NASA-CR-52020
N63-22878	23-20	NASA-CR-52018
N63-22879	23-11	NASA-CR-52023
N63-22880	23-29	NASA-CR-51782
N63-22881	23-23	NASA-CR-52C06
N63-22882	23-18	NASA-CR-51858
N63-22883	23-21	NASA-CR-51824
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N63-22885	23-28	AID-P-63-89
N63-22886	23-08	AID-P-63-111
N63-22887	23-23	AID-T-63-112
N63-22888	23-34	AID-P-63-113
N63-22889	23-07	AID-B-63-114
N63-22890	23-25	NASA-CR-51532
N63-22891	23-06	NASA-CR-51531
N63-22892	23-06	NASA-CR-51529
N63-22893	23-06	NASA-CR-51533
N63-22894	23-06	NASA-CR-51565
N63-22895	23-08	NASA-CR-51853
N63-22896	23-10	NASA-TM-X-50880
N63-22897	23-33	NASA-TN-D-1967
N63-22898	23-24	AFCRL-63-851
N63-22899	23-04	AFCRL-63-885
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N63-22901	23-16	AMRL-TDR-63-77
N63-22902	23-24	ASD-TDR-63-37
N63-22903	23-18	ASD-TDR-63-798
N63-22904	23-18	BMI-1649
N63-22905	23-14	JPRS-21522
N63-22906	23-18	JPRS-21406
N63-22907	23-07	LA-2923
N63-22908	23-06	LAMS-2948
N63-22909	23-20	LAMS-2954
N63-22910	23-09	LA-2957
N63-22911	23-25	ML-1060
N63-22912	23-25	ML-1057
N63-22913	23-24	NUP-63-12
N63-22914	23-03	TRECOM-TR-63-34
N63-22915	23-11	TRECOM-TR-63-38
N63-22916	23-16	UR-610
N63-22917	23-16	UR-631
N63-22918	23-06	HR-25090
N63-22919	23-23	NO REPORT NUMBER
N63-22920	23-08	AFCRL-63-344
N63-22921	23-08	IA-102
N63-22922	23-33	AMRA-TR-63-21

N63-22923	23-09	NO REPORT NUMBER
N63-22924	23-24	CARDE-TR-466
N63-22925	23-23	LNF-63/62
N63-22926	23-14	ESD-TDR-63-546
N63-22927	23-15	GDR-63040
N63-22928	23-14	JPRS-21376
N63-22929	23-12	NASA-CR-51722
N63-22930	23-25	NASA-RP-34
N63-22931	23-29	NASA-RP-38
N63-22932	23-16	JPRS-21479
N63-22933	23-27	RF-TR-63-19
N63-22934	23-19	RR-TR-63-18
N63-22935	23-18	REIC-29
N63-22936		ACC. NO. NOT USED
N63-22937	23-10	SM-42632
N63-22938	23-22	SM-42820
N63-22939	23-29	SM-42977
N63-22940	23-24	SSD-TDR-63-193
N63-22941	23-09	NO REPORT NUMBER
N63-22942	23-09	TI-08-63-62
N63-22943	23-09	TI-08-63-102
N63-22944	23-03	NASA-TN-D-2014
N63-22945	23-02	NASA-TN-D-2026
N63-22946	23-02	NASA-TN-D-2029
N63-22947	23-03	NASA-TN-D-2030
N63-22948	23-02	NASA-TT-F-129
N63-22949	23-23	NASA-TT-F-180
N63-22950	23-05	NASA-RP-105
N63-22951	23-05	NASA-RP-108
N63-22952	23-05	NASA-RP-109
N63-22953	23-12	NASA-RP-112
N63-22954	23-17	AEDC-TDR-63-154
N63-22955	23-11	AEDC-TDR-63-199
N63-22956	23-11	AEDC-TDR-63-207
N63-22957	23-09	AFCRL-63-156
N63-22958	23-09	AFCRL-63-349
N63-22959	23-09	NO REPORT NUMBER
N63-22960	23-04	FDCC-TM-63-2
N63-22961	23-17	FA-M64-4-1
N63-22962	23-10	NO REPORT NUMBER
N63-22963		ACC. NO. NOT USED
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N63-22966	23-18	JPRS-21437
N63-22967	23-23	NO REPORT NUMBER
N63-22968	23-23	LNF-63/61
N63-22969	23-23	LNF-62/105
N63-22970	23-25	NO REPORT NUMBER
N63-22971	23-23	NAA-SR-8490
N63-22972	23-23	ONR-TR-63
N63-22973	23-11	NO REPORT NUMBER
N63-22974	23-11	AROD-2303-2
N63-22975	23-11	AROD-2303-3
N63-22976	23-25	J046-4
N63-22977	23-19	PA-TM-1250
N63-22978	23-08	RADC-TDR-63-58
N63-22979	23-21	CRREL-124
N63-22980	23-16	SAM-TDR-63-36
N63-22981	23-16	SAM-TDR-63-39
N63-22982	23-25	NO REPORT NUMBER
N63-22983	23-29	VL-2244-19-0
N63-22984	23-09	PIBMRI-1151-63/A
N63-22985	23-24	AFCRL-63-723
N63-22986	23-23	AFCRL-63-731
N63-22987	23-23	AFCRL-63-890
N63-22988	23-07	ANL-6684
N63-22989	23-11	ANL-6755
N63-22990	23-03	ARL-63-168
N63-22991	23-23	HW-77871
N63-22992	23-07	IS-618
N63-22993	23-08	LMSC-5-10-63-26
N63-22994	23-23	NO REPORT NUMBER
N63-22995	23-23	NO REPORT NUMBER
N63-22996	23-23	NO REPORT NUMBER
N63-22997	23-24	MATT-203
N63-22998	23-02	NO REPORT NUMBER
N63-22999	23-24	ML-1055
N63-23000	23-08	RAE-TRANS-1042
N63-23001	24-20	RADC-RAU-TM-63-6
N63-23002	24-17	RIA-63-2808
N63-23003	24-18	WAL-TR-766.2/1-10
N63-23004	24-20	NO REPORT NUMBER
N63-23005	24-16	JPRS-21280
N63-23006	24-19	NASA-CR-51750
N63-23007	24-25	NASA-CR-51742
N63-23008	24-11	NASA-CR-51850
N63-23009	24-11	NASA-CR-51985
N63-23010	24-16	NASA-CR-50501
N63-23011	24-07	NASA-CR-51999
N63-23012	24-10	NASA-CR-51851
N63-23013	24-32	NASA-TM-X-50910
N63-23014	24-18	NASA-TM-X-50924
N63-23015	24-23	NASA-CR-51997
N63-23016	24-32	NASA-TM-X-50613
N63-23017	24-16	NASA-CR-51998
N63-23018	24-25	AID-T-63-106
N63-23019	24-30	NASA-CR-51743
N63-23020	24-29	NASA-TM-X-50963
N63-23021	24-05	NASA-CR-52021
N63-23022	24-05	NASA-TM-X-50841
N63-23023	24-32	NASA-CR-51303
N63-23024	24-12	NASA-TM-X-50956
N63-23025	24-26	NASA-TM-X-51978
N63-23026	24-14	NASA-TM-X-50889
N63-23027	24-30	NASA-TM-X-50805
N63-23028	24-18	NASA-TM-X-50837
N63-23029	24-32	NASA-CR-51681
N63-23030	24-09	NASA-TM-X-50813
N63-23031	24-15	NASA-TM-X-50814
N63-23032	24-19	NASA-TM-X-50836
N63-23033	24-02	NASA-CR-51730
N63-23034	24-08	NASA-TM-X-50853
N63-23035	24-29	NASA-CR-51538
N63-23036	24-29	NASA-TM-X-50782
N63-23037	24-18	NASA-CR-51597
N63-23038	24-20	NASA-TM-X-50729
N63-23039	24-24	NASA-TM-X-50932
N63-23040	24-13	NASA-TM-X-50852
N63-23041	24-26	NASA-CR-51656
N63-23042	24-09	NASA-CR-51587
N63-23043	24-23	NASA-CR-51586
N63-23044	24-06	NASA-CR-51737
N63-23045	24-07	NASA-CR-51727
N63-23046	24-26	NASA-CR-51013
N63-23047	24-16	SID-63-284
N63-23048	24-29	JPL-TR-32-454
N63-23049	24-15	CERN-63-25
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N63-23051	24-17	I-A-2049-20
N63-23052	24-23	NO REPORT NUMBER
N63-23053	24-25	JPRS-21051
N63-23054	24-15	NO REPORT NUMBER
N63-23055	24-20	NO REPORT NUMBER
N63-23056	24-19	AROD-3263-7
N63-23057	24-19	NO REPORT NUMBER
N63-23058	24-09	ACL-MEMO-78
N63-23059	24-11	AFCRL-63-322
N63-23060	24-28	NASA-RP-106
N63-23061	24-25	NO REPORT NUMBER
N63-23062	24-24	R-52
N63-23063	24-24	USCEC-96-101
N63-23064	24-07	NO REPORT NUMBER
N63-23065	24-23	AIAA PAPER-63-391
N63-23066	24-21	AWS-TR-171
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N63-23068	24-15	NO REPORT NUMBER
N63-23069	24-17	NO REPORT NUMBER
N63-23070	24-23	NO REPORT NUMBER
N63-23071	24-01	NASA-CR-51798
N63-23072	24-09	NEL-1175
N63-23073	24-08	TIL/T-5376
N63-23074	24-01	NO REPORT NUMBER
N63-23075	24-23	NO REPORT NUMBER
N63-23076	24-13	FTD-TT-62-50/1&264
N63-23077	24-29	NO REPORT NUMBER
N63-23078	24-07	B2130-T-1
N63-23079	24-21	AWS-TR-170
N63-23080	24-11	NO REPORT NUMBER
N63-23081	24-19	ONR-TR-RLT-64
N63-23082	24-24	APP-4
N63-23083	24-23	NO REPORT NUMBER
N63-23084	24-25	NO REPORT NUMBER
N63-23085	24-20	NO REPORT NUMBER
N63-23086	24-11	NO REPORT NUMBER
N63-23087	24-12	AFCRL-63-850
N63-23088	24-16	ASD-TDR-63-866
N63-23089	24-23	AEET-NP-6
N63-23090	24-24	MATT-210
N63-23091	24-22	AIAA PAPER-63-151
N63-23092	24-12	AFCRL-63-702
N63-23093	24-12	AFCRL-63-714
N63-23094	24-24	MATT-197
N63-23095	24-24	MATT-200
N63-23096	24-11	AVCO-EVERETT RES. REPT.-163
N63-23097	24-07	AMP-119
N63-23098	24-07	ORNL-3482
N63-23099	24-17	ORNL-3511
N63-23100	24-09	USCEC-65-54
N63-23101	24-02	USCEC-65-55
N63-23102	24-02	USCEC-65-56

N63-23103	24-10	USCEC-65-57
N63-23104	24-23	ARL-63-140
N63-23105	24-19	ARL-63-170
N63-23106	24-09	R-407
N63-23107	24-18	AEET-CD-15
N63-23108	24-01	NO REPORT NUMBER
N63-23109	24-09	RADC-TDR-63-16
N63-23110	24-08	AFCRL-63-109
N63-23111	24-18	DMIC-185
N63-23112	24-18	ASD-TDR-63-567
N63-23113	24-12	AFCRL-63-872
N63-23114	24-25	NO REPORT NUMBER
N63-23115	24-07	PA-TR-3089
N63-23116	24-09	TI-08-63-20
N63-23117	24-16	DP-861
N63-23118	24-09	TR62-254.3
N63-23119	24-23	NO REPORT NUMBER
N63-23120	24-05	AFCRL-63-733
N63-23121	24-08	S-74-R-29
N63-23122	24-24	NASA-TN-D-1111
N63-23123	24-31	NASA-TN-D-1683
N63-23124	24-29	NASA-TN-D-1839
N63-23125	24-04	NASA-TN-D-1968
N63-23126	24-34	NASA-TN-D-2125
N63-23127	24-12	NO REPORT NUMBER
N63-23128	24-29	ERR-AN-167
N63-23129	24-24	ARL-63-145
N63-23130	24-33	ERR-AN-080
N63-23131	24-08	IIT-RI-5177-FR
N63-23132	24-13	ASD-TDR-63-530
N63-23133	24-33	CU-3-63-ONR-266/34/-CE
N63-23134	24-11	XAR-A-45
N63-23135	24-04	DTMB-AERO-1058
N63-23136	24-15	GA-4497
N63-23137	24-08	ASD-TDR-63-845
N63-23138	24-04	NO REPORT NUMBER
N63-23139	24-18	JPRS-21459
N63-23140	24-12	JPRS-21493
N63-23141	24-07	JPRS-21519
N63-23142	24-12	JPRS-21531
N63-23143	24-11	TR-1165
N63-23144	24-09	RM-3874-PR
N63-23145	24-23	AECL-1782
N63-23146	24-08	NO REPORT NUMBER
N63-23147	24-07	AEET-DC-14
N63-23148	24-23	AEET-TP-3
N63-23149	24-29	RM-3793-PR
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N63-23151	24-27	NO REPORT NUMBER
N63-23152	24-20	ABL/X-86
N63-23153	24-04	NO REPORT NUMBER
N63-23154	24-08	NRL-5867
N63-23155	24-21	NRL-5966
N63-23156	24-25	MATT-182
N63-23157	24-32	NO REPORT NUMBER
N63-23158	24-08	AMRL-MEMO-P-39
N63-23159	24-08	AMRL-MEMO-P-35
N63-23160	24-24	NO REPORT NUMBER
N63-23161	24-23	ANL-6720
N63-23162	24-23	ANL-6767
N63-23163	24-28	NO REPORT NUMBER
N63-23164	24-05	NASA-RP-113
N63-23165	24-18	NO REPORT NUMBER
N63-23166	24-28	NO REPORT NUMBER
N63-23167	24-25	AROD-3323-3
N63-23168	24-04	AFCRL-63-841
N63-23169	24-08	SAD-128
N63-23170	24-17	NRL-5929
N63-23171	24-27	NO REPORT NUMBER
N63-23172	24-01	AMRL-MEMO-P-43
N63-23173	24-23	RC-928
N63-23174	24-09	BB-318
N63-23175	24-24	NO REPORT NUMBER
N63-23176	24-12	TID-7024
N63-23177	24-18	BNL-825/PR-4/
N63-23178	24-24	NO REPORT NUMBER
N63-23179	24-25	AFCRL-63-363
N63-23180	24-16	USNRDL-TR-668
N63-23181	24-27	USNRDL-TR-669
N63-23182	24-04	SM-41833
N63-23183	24-11	PIBAL-787
N63-23184	24-09	ESD-TDR-63-607
N63-23185	24-13	AIAA PAPER 63-450
N63-23186	24-13	FTD-TT-61-36/1&2&4
N63-23187	24-16	FTD-TT-63-641/1&2&4
N63-23188	24-02	FTD-TT-63-739/1&2
N63-23189	24-14	FTD-TT-63-791/1&2
N63-23190	24-30	SPDIR-28
N63-23191	24-30	NO REPORT NUMBER
N63-23192	24-20	EUR-347.F
N63-23193	24-23	LNF-63/47
N63-23194	24-23	LNF-63/54
N63-23195	24-23	LNF-63/46
N63-23196	24-15	LNF-63/50
N63-23197	24-08	LNF-63/53
N63-23198	24-23	LNF-63/55
N63-23199	24-02	NO REPORT NUMBER
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N63-23325	24-06	NO REPORT NUMBER
N63-23326	24-02	NO REPORT NUMBER
N63-23327	24-02	NO REPORT NUMBER
N63-23328	24-21	JPRS-21242
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N63-23331	24-21	NO REPORT NUMBER
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N63-23335	24-12	NO REPORT NUMBER
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N63-23337	24-12	NO REPORT NUMBER
N63-23338	24-14	SAM-TDR-63-27
N63-23339	24-16	SAM-TDR-63-67
N63-23340	24-05	NO REPORT NUMBER
N63-23341	24-29	SM-43544
N63-23342	24-13	K-[illegible]494
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N63-23344	24-03	NLR-TN-V.1913
N63-23345	24-15	NO REPORT NUMBER
N63-23346	24-21	AFCRL-63-678
N63-23347	24-09	AFCRL-63-378
N63-23348	24-18	WANL-PR-M-006
N63-23349	24-33	NO REPORT NUMBER
N63-23350	24-08	NO REPORT NUMBER
N63-23351	24-18	RSIC-71
N63-23352	24-23	JPL-TR-32-409
N63-23353	24-01	SID-63-167
N63-23354	24-18	JPRS-21546
N63-23355	24-23	NO REPORT NUMBER
N63-23356	24-21	AFCRL-63-840
N63-23357	24-05	NO REPORT NUMBER
N63-23358	24-11	NASA-TR-R-145
N63-23359	24-32	NO REPORT NUMBER
N63-23360	24-13	NO REPORT NUMBER
N63-23361	24-33	DMIC-176
N63-23362	24-30	NASA-TN-D-1821
N63-23363	24-02	NASA-TN-D-2038
N63-23364	24-27	SSD-TDR-63-183-/IV/
N63-23365	24-13	ASD-TDR-63-802
N63-23366	24-12	AFCRL-63-384
N63-23367	24-13	NO REPORT NUMBER
N63-23368	24-13	NO REPORT NUMBER
N63-23369	24-23	D-709582
N63-23370	24-06	SSD-TDR-63-183-/III/
N63-23371	24-11	AERE-TRANS-915
N63-23372	24-16	SAM-TDR-63-47
N63-23373	24-23	NO REPORT NUMBER
N63-23374	24-23	GEMP-79
N63-23375	24-09	S-1015-2
N63-23376	24-25	NO REPORT NUMBER
N63-23377	24-08	FTD-TT-62-32/1&2
N63-23378	24-26	FTD-TT-62-1441/1&2&4
N63-23379	24-19	FTD-TT-62-1535-1&2&4
N63-23380	24-23	FTD-TT-62-1787/1&2
N63-23381	24-11	FTD-TT-63-71/1&2
N63-23382	24-07	FTD-TT-63-457/1
N63-23383	24-13	FTD-TT-63-460/1&2
N63-23384	24-06	FTD-TT-63-470/1&2&4
N63-23385	24-13	FTD-TT-63-572/1&2&4
N63-23386	24-15	FTD-TT-63-602/1&2
N63-23387	24-11	FTD-TT-63-617/1&2&4
N63-23388	24-02	FTD-TT-63-646/1&2
N63-23389	24-15	FTD-TT-63-683/1
N63-23390	24-18	FTD-TT-63-714/1&2
N63-23391	24-13	FTD-TT-63-726/1&2
N63-23392	24-03	FTD-TT-63-750/1&2
N63-23393	24-15	FTD-TT-63-797/1&2
N63-23394	24-26	FTD-TT-63-850/1&2
N63-23395	24-16	FTD-TT-63-866/1&2
N63-23396	24-06	FTD-TT-62-910/1&2
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N63-23398	24-23	NO REPORT NUMBER
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N63-23401	24-24	NO REPORT NUMBER
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N63-23407	24-18	ASD-TDR-63-753, PT. I
N63-23408	24-24	NO REPORT NUMBER
N63-23409	24-24	NO REPORT NUMBER
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N63-23416	24-12	NO REPORT NUMBER
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N63-23424	24-02	R-71
N63-23425	24-19	NO REPORT NUMBER
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N63-23428	24-33	PIBAL-672
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N63-23431	24-08	NBS-TN-184
N63-23432	24-19	R63FL9
N63-23433	24-09	AVCO-EVERETT RES. REPT.-165
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N63-23439	24-08	NO REPORT NUMBER
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N63-23461	24-23	NO REPORT NUMBER
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N63-23465	24-23	ISS-63-30
N63-23466	24-23	NO REPORT NUMBER
N63-23467	24-25	NO REPORT NUMBER
N63-23468	24-23	NO REPORT NUMBER
N63-23469	24-33	SPDIR-26, SUPPL. I
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N63-23474	24-24	NO REPORT NUMBER
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N63-23477	24-24	NO REPORT NUMBER
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N63-23490	24-24	NO REPORT NUMBER
N63-23491	24-24	NO REPORT NUMBER
N63-23492	24-16	JPRS-21712
N63-23493	24-09	BRL-TN-1511
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N63-23496	24-19	NO REPORT NUMBER
N63-23497	24-23	NO REPORT NUMBER
N63-23498	24-07	NO REPORT NUMBER
N63-23499	24-23	RR-463-9
N63-23500	24-19	NO REPORT NUMBER
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N63-23502	24-23	AEDC-TDR-63-239
N63-23503	24-19	NO REPORT NUMBER
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N63-23508	24-23	RSIC-48
N63-23509	24-18	RSIC-81
N63-23510	24-13	PIBAL-797
N63-23511	24-11	NASA-CR-52070
N63-23512	24-23	NO REPORT NUMBER
N63-23513	24-24	NO REPORT NUMBER
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N63-23521	24-16	NO REPORT NUMBER
N63-23522	24-15	NASA-CR-51542
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N63-23546	24-25	NO REPORT NUMBER
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N63-23549	24-12	NO REPORT NUMBER
N63-23550	24-25	NO REPORT NUMBER
N63-23551	24-09	NO REPORT NUMBER
N63-23552	24-19	NAB-195-N
N63-23553	24-20	JPRS-21006
N63-23554	24-30	TDR-269/4130-10/-5
N63-23555	24-33	DF-12-111
N63-23556	24-25	TRG-134-QTR-5
N63-23557	24-27	SSD-TDR-63-278
N63-23558	24-27	NASA-CR-52081
N63-23559	24-17	GER-11154B
N63-23560	24-21	ERDA-75
N63-23561	24-20	ESD-TDR-63-349
N63-23562	24-23	NO REPORT NUMBER
N63-23563	24-16	NO REPORT NUMBER
N63-23564	24-27	UVA-3-R
N63-23565	24-24	NO REPORT NUMBER
N63-23566	24-09	ERDA-76
N63-23567	24-07	ORNL-3488
N63-23568	24-07	ORNL-3497
N63-23569	24-21	PNE-304
N63-23570	24-23	ANL-6745
N63-23571	24-07	ANL-6766
N63-23572	24-12	NO REPORT NUMBER
N63-23573	24-11	R63SD66
N63-23574	24-26	AMRL-TDR-63-75
N63-23575	24-09	NO REPORT NUMBER
N63-23576	24-08	TDR-269/4111/-1
N63-23577	24-23	NO REPORT NUMBER
N63-23578	24-09	PIBMRI-1175-63
N63-23579	24-20	RADC-TDR-63-378
N63-23580	24-19	GEMP-243
N63-23581	24-08	AFCRL-63-383
N63-23582	24-26	AMRL-MEMO-M-26
N63-23583	24-32	NO REPORT NUMBER
N63-23584	24-18	NO REPORT NUMBER
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N63-23589	24-24	VIDYA-101
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N63-23593	24-20	NO REPORT NUMBER
N63-23594	24-07	NO REPORT NUMBER
N63-23595	24-09	AFCRL-62-706
N63-23596	24-02	NO REPORT NUMBER
N63-23597	24-13	NO REPORT NUMBER
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N63-23602	24-26	NASA-CR-52069
N63-23603	24-23	NO REPORT NUMBER
N63-23604	24-21	JPRS-21495
N63-23605	24-11	JPRS-21398
N63-23606	24-09	JPRS-21550
N63-23607	24-16	JPRS-21605
N63-23608	24-18	JPRS-21676
N63-23609	24-16	NO REPORT NUMBER
N63-23610	24-20	NOLTR-63-171
N63-23611	24-11	AEDC-TDR-63-197
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N63-23614	24-23	NO REPORT NUMBER
N63-23615	24-13	SRB-63-1
N63-23616	24-16	NASA-CR-52082
N63-23617	24-02	RG-TR-63-27
N63-23618	24-19	BM-RI-6313
N63-23619	24-07	NASA-CR-52016
N63-23620	24-29	NO REPORT NUMBER
N63-23621	24-19	RDR-1343-4
N63-23622	24-04	GDC-62-370
N63-23623	24-04	TRECOM-TR-63-42
N63-23624	24-09	ASD-TDR-63-205
N63-23625	24-23	NO REPORT NUMBER
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N63-23628	24-33	NO REPORT NUMBER
N63-23629	24-19	NO REPORT NUMBER
N63-23630	24-18	NO REPORT NUMBER
N63-23631	24-05	FTD-TT-62-1428/,62
N63-23632	24-05	FTD-TT-62-1465/1&2&4
N63-23633	24-15	FTD-TT-62-1495/1&2
N63-23634	24-13	FTD-TT-62-974/1&2&4
N63-23635	24-28	FTD-TT-62-1380/1&2&4
N63-23636	24-23	FTD-TT-62-1509/1&2
N63-23637	24-15	FTD-TT-62-1510/1&2
N63-23638	24-13	FTD-TT-62-1613/1
N63-23639	24-24	FTD-TT-63-208/1&2&4
N63-23640	24-09	FTD-TT-63-377/1&2
N63-23641	24-09	FTD-TT-63-379/1&2
N63-23642	24-09	FTD-TT-63-476/1&2&4

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N63-23644 24-07 ..... AFCRL-63-800
N63-23645 24-11 ..... ARD-TR-013-01
N63-23646 24-34 ..... NO REPORT NUMBER
N63-23647 24-08 ..... RADC-TDR-63-380
N63-23648 24-19 ..... NAA-SR-8403
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N63-23650 24-09 ..... NASA-CR-52239
N63-23651 24-08 ..... NASA-CR-52200
N63-23652 24-30 ..... NASA-TN-D-2017
N63-23653 24-24 ..... NASA-TN-D-2226
N63-23654 24-10 ..... NASA-CR-52252
N63-23655 24-32 ..... NASA-CR-52254
N63-23656 24-02 ..... NASA-CR-52188
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N63-23658 24-14 ..... NO REPORT NUMBER
N63-23659 24-28 ..... SEL-62-149/SUP/
N63-23660 24-11 ..... SR-4-2
N63-23661 24-09 ..... RADC-RAS-TM-63-5
N63-23662 24-19 ..... SSD-TDR-63-191
N63-23663 24-18 ..... ASD-TDR-63-789
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N63-23665 24-18 ..... NO REPORT NUMBER
N63-23666 24-02 ..... AEDC-TDR-63-224
N63-23667 24-15 ..... AFCRL-63-887
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N63-23669 24-02 ..... ER-1115-25
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N63-23675 24-30 ..... NO REPORT NUMBER
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N63-23679 24-21 ..... NASA-TN-D-1915
N63-23680 24-23 ..... NASA-TN-D-1987
N63-23681 24-02 ..... NASA-TN-D-2009
N63-23682 24-02 ..... NASA-TN-D-2022
N63-23683 24-23 ..... NASA-TN-D-2070
N63-23684 24-02 ..... NASA-TN-D-2075
N63-23685 24-22 ..... NASA-TN-D-2094
N63-23686 24-02 ..... NASA-TR-R-182
N63-23687 24-33 ..... NO REPORT NUMBER
N63-23688 24-12 ..... ES-8
N63-23689 24-02 ..... SUDAER-160
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N63-23691 24-23 ..... LMSC-A384055
N63-23692 24-23 ..... ASD-TDR-63-707
N63-23693 24-23 ..... ASD-TDR-63-723
N63-23694 24-29 ..... LMSC-A303606
N63-23695 24-12 ..... JPRS-21670
N63-23696 24-21 ..... JPRS-21691
N63-23697 24-33 ..... BRL-MEMO-1498
N63-23698 24-09 ..... RG-TR-63-14
N63-23699 24-04 ..... RT-TR-63-6
N63-23700 24-23 ..... NO REPORT NUMBER
N63-23701 24-08 ..... AFCRL-63-332
N63-23702 24-06 ..... RTD-TDR-63-4029
N63-23703 24-06 ..... AEDC-TDR-63-231
N63-23704 24-23 ..... R63-44
N63-23705 24-08 ..... PAD-72
N63-23706 24-23 ..... UCRL-10731
N63-23707 24-32 ..... LS-B1B-63-1
N63-23708 24-29 ..... NASA-TN-D-1906
N63-23709 24-02 ..... NO REPORT NUMBER
N63-23710 24-01 ..... BMI-1639/DEL./
N63-23711 24-21 ..... AFCRL-63-732
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N63-23714 24-13 ..... BM-RI-6316
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N63-23716 24-18 ..... RSIC-78
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N63-23726 24-23 ..... FTD-TT-62-1227/1&3&4
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N63-23728 24-10 ..... FTD-TT-62-1476/1&2
N63-23729 24-30 ..... FTD-TT-62-1478/1&2&3&4
N63-23730 24-19 ..... FTD-TT-62-1539/1&2&4
N63-23731 24-30 ..... FTD-TT-62-1580/1&2&4
N63-23732 24-19 ..... FTD-TT-1763/1&2
N63-23733 24-19 ..... FTD-TT-62-1765/1&2
N63-23734 24-24 ..... FTD-TT-63-182/1&2
N63-23735 24-29 ..... FTD-TT-63-335/1
N63-23736 24-02 ..... FTD-TT-63-393/1&2&4
N63-23737 24-09 ..... FTD-TT-63-459/1&2
N63-23738 24-18 ..... FTD-TT-63-266/1&2
N63-23739 24-09 ..... FTD-TT-62-1528/1&2&4
N63-23740 24-09 ..... RADC-RAS-TM-63-6
N63-23741 24-27 ..... NOLTR 63-3
N63-23742 24-23 ..... AGN-TM-404
N63-23743 24-19 ..... ABL/X-105
N63-23744 24-02 ..... ARC-CP-665
N63-23745 24-33 ..... ARC-CP-680
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N63-23767 24-09 ..... FTD-TT-62-1194/1&2&4
N63-23768 24-12 ..... FTD-TT-62-1507/1&2
N63-23769 24-18 ..... FTD-TT-62-1513/1&2
N63-23770 24-04 ..... DC-12-011
N63-23771 24-23 ..... NO REPORT NUMBER
N63-23772 24-21 ..... JPRS-21721
N63-23773 24-24 ..... NOLTR 63-61
N63-23774 24-17 ..... NRL-5963
N63-23775 24-13 ..... NO REPORT NUMBER
N63-23776 24-04 ..... ARC-RM-3336
N63-23777 24-24 ..... RAD-865A
N63-23778 24-09 ..... RM-225
N63-23779 24-28 ..... REIC-32
N63-23780 24-16 ..... SAM-TDR-63-44
N63-23781 24-18 ..... SSD-TDR-63-216
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N63-23783 24-23 ..... TID-7664
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N63-23789 24-07 ..... RSIC-77
N63-23790 24-18 ..... SID-62-1219-3
N63-23791 24-25 ..... NO REPORT NUMBER
N63-23792 24-25 ..... SSD-TDR-63-183-/II/
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N63-23794 24-23 ..... NASA-RP-40
N63-23795 24-30 ..... NASA-RP-39
N63-23796 24-19 ..... NASA-CR-52279
N63-23797 24-19 ..... NASA-CR-52278
N63-23798 24-19 ..... NASA-CR-52281
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N63-23800 24-23 ..... WAPD-TM-396
N63-23801 24-23 ..... NO REPORT NUMBER
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N63-23803 24-19 ..... NO REPORT NUMBER
N63-23804 24-08 ..... AFCRL-63-370
N63-23805 24-29 ..... NASA-CR-52270
N63-23806 24-29 ..... NASA-CR-52271
N63-23807 24-19 ..... NASA-CR-52319
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BAKER, R. C.
MECHANICAL ENGINEERING AND AERONAUTICS - BULLETIN
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BRAUER, F. P.
QUANTITATIVE ANALYSIS OF MULTICOMPONENT PULSE-HEIGHT SPECTRUM FROM DECAY OF RADIONUCLIDES
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BRAUNILLER, J.
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ASD-TDR-63-74 N63-14102 09-22

BRAUN, J. F.
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BRAY, T. E.
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JPRS-16638 N63-10985 02-16

BRAYSHAW, J. M.
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BREBAN, A.
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NUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & WATER CHEMISTRY
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BREDZS, N.
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BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS N63-12584 06-07

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REACTION BETWEEN GASES AND CONDENSED PHASES - SPECTROSCOPY OF HIGH TEMPERATURE CHEMISTRY - BIBLIOGRAPHY N63-21477 22-01

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WGL PAPER-65 N63-10060 01-16

BRIERLY, W. B.
ANALYSIS AND EVALUATION OF ENVIRONMENTAL FACTORS - ARMY PROGRAM - VIBRATION N63-16099 13-01

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VARIATION OF RADIO-STAR AND SATELLITE AMPLITUDE SCINTILLATIONS WITH ZENITH ANGLE - EFFECT OF IONOSPHERIC IRREGULARITIES N63-12467 06-12

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JPL-TR-32-436 N63-22509 23-19

BRIGGS, R. E.
SATELLITES, SPACE SCIENCE AND ASTROPHYSICS RESEARCH N63-21972 22-05

BRIGHAM, R. O.
COOLING SYSTEM FOR SUPERORBITAL REENTRY
N63-18248 17-30

BRILHART, J. R.
BIBLIOGRAPHY - MOON EXPLORATION
N63-22784 23-01

BRILL, D. R.
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BIBLIOGRAPHY - COLD WELDING IN VACUUM - MATERIALS SCIENCE
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CRAIG, R. A.
THERMAL RADIATION OF AIR FROM STAGNATION REGION OF BLUNT BODIES AT HYPERSONIC SPEED
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DIAMBRINI-PALAZZI, G.
PROCEEDINGS OF THE NATIONAL INSTITUTE OF NUCLEAR PHYSICS - FRASCATI, ITALY, 1963
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DIAMBRINI, G.
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NONMILITARY NUCLEAR RESEARCH - CIVILIAN USES OF ATOMIC ENERGY
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ARS PAPER-2566-62 N63-10272 01-06

DIETRICH, A. K.
UNIVERSAL PRINT READER - SCANNER, CHARACTER RECOGNITION, AND DATA PROCESSING
RADC-TDR-63-181 N63-16401 14-20

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RANDOM VIBRATION STUDIES OF COUPLED STRUCTURES IN ELECTRONIC EQUIPMENTS
ASD-TDR-63-205 N63-23624 24-09

DIETRICH, R. G.
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DIETZ, A. E.
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N63-10815 02-33

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AFCRL-62-949 N63-12643 06-25

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AFCRL-62-949/SUPPL./ N63-17083 15-25

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PIBMRI-1077-62 N63-12697 06-09

DISNEY, R. T.
RADIO NOISE MEASUREMENTS - MARCH, APRIL, MAY 1962
NBS-TN-18-14 N63-11047 03-08

ATMOSPHERIC RADIO NOISE, JUNE TO AUGUST, 1962
NBS-TN-18-15 N63-14853 11-08

RADIO NOISE DATA, SEPTEMBER, OCTOBER, NOVEMBER, 1962
NBS-TN-18-16 N63-18361 17-08

DISSELHORST, B. F.
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LUNAR EXPLORATION CONFERENCE - RADAR ECHO, RADAR DATA INTERPRETATION, PHOTOGRAPHIC PHOTOMETRY, LUNAR VOLCANICS, & MANNED EXPLORATION
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BIBLIOGRAPHY - RADAR ASTRONOMY
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GREGORY, D. P.
WORK HARDENING MECHANISMS IN BODY CENTERED CUBIC METALS
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WORK HARDENING MECHANICS AND DEFORMATION OF BODY-CENTERED-CUBIC METALS - NIOBIUM AND TUNGSTEN
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GREGSON, V. G.
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HEALTH RADIOCHEMISTRY - RADIATION EFFECTS - BIOCHEMISTRY
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NASA-UNIVERSITY CONFERENCE ON SPACE - ROCKETS, GEOPHYSICS, ASTRONOMY, CELESTIAL MECHANICS AND BIOASTRONAUTICS - VOL I
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SPACE EXPLORATION & SPACE SCIENCE - CONFERENCE ADDRESSES
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REPORT OF NASA SUMMER INSTITUTE IN SPACE PHYSICS
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RADIO NOISE DATA, SEPTEMBER, OCTOBER, NOVEMBER, 1962
NBS-TN-18-16 N63-18361 17-08

JENKINS, O. G., JR.
HALLAM NUCLEAR POWER FACILITY - REACTOR OPERATIONS ANALYSIS PROGRAM
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KENT, T.
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KENYON, G. C.
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KERNICLE, H. A.
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KERN, J. W.
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ELECTRON BEAM WELDING OF AEROSPACE METALS
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KERNFELD, P.
PRESSURE PULSE PROPAGATION MODES IN COMPRESSIBLE FLUID SPHERE
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PROPERTIES OF GLASS AT HIGH TEMPERATURES FOR AIRCRAFT CONSTRUCTION
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KERR, J. R.
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OPTIMUM MATERIALS FOR CRYOGENIC FUELED RECOVERABLE AEROSPACE VEHICLES
ASD-TDR-63-798 N63-22903 23-18

KERRIGAN, J. V.
BIBLIOGRAPHY - EPITAXIAL GROWTH OF SINGLE CRYSTALS
LMSC-SB-63-32 N63-22576 23-07

KERRISK, D. J.
POTENTIALITIES OF ELECTRON BOMBARDMENT ION ENGINES FOR ELECTRIC PROPULSION
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KERSHAW, W. L.
RADIOISOTOPE FUELED THERMOELECTRIC GENERATORS
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MND-P-2836 N63-20584 20-06

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KESHISHIAN, V.
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KESHMIRI, M.
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KESHOCK, E. G.
AIR LEAKAGE MEASUREMENT OF PLUM BROOK REACTOR VESSEL
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KESMIRI, M.
RADIATION EFFECTS ON ANIMAL TISSUES AND LIFESPAN, RADIOPROTECTIVE DRUG STUDIES N63-12251 05-16

KESPERIS, J. S.
RESEARCH IN PHOTOVOLTAIC CONVERSION - LARGE AREA SOLAR CELLS, CRYSTAL SEMICONDUCTORS, AND SILICON EFFICIENCY N63-14146 09-06

KESSEL, P.
SPRINGS OF WIDE TEMPERATURE RANGE
ASD-TR-61-566 N63-10743 02-18

KESSELMAN, R.
NUCLEAR RADIATION EFFECT ON BARIUM TITANATE & LEAD ZIRCONIUM TITANATE - PIEZOELECTRIC CRYSTALS
PA-TR-3045 N63-19954 19-23

KESSELRING, K. A.
REACTOR TECHNOLOGY - PHYSICS REPORT
KAPL-2000-20 N63-17196 15-23

KESSLER, C. E.
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KONAR, C. A.
ULTRASONIC PHENOMENA AND METHODS OF MEASUREMENT - BIBLIOGRAPHY
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KONAREK, K.
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CHEMISTRY OF HEXACHLORODIGERMANE
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HIGH STRENGTH OF METALLIC WHISKERS, FRACTURE

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KOPYEV, V. YA.
SPACE FLIGHTS AND BIOLOGY IN OUTER SPACE - SOVIET REPORT
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KORENBERG, E. B.
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KORKEGI, R. H.
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TCEA-TM-15 N63-18031 16-10

KORNBERG, H. A.
HANFORD BIOLOGY RESEARCH ANNUAL REPORT FOR 1962 - TOXICITY AND METABOLISM OF RADIOACTIVE ELEMENTS, ANIMAL AND PLANT PHYSIOLOGY, ECOLOGY
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KOVACH, R. L.
NASA-UNIVERSITY CONFERENCE ON SPACE - ROCKETS, GEOPHYSICS, ASTRONOMY, CELESTIAL MECHANICS AND BIOASTRONAUTICS - VOL I
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KOVALEV, I. S.
RADIO ENGINEERING - EDUCATION
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KOVALEVSKIY, V. A.
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KOVTUU, S. F.
NONFERROUS METALS - DEFORMATION STRUCTURE OF NIOBIUM, SILUMIN, TITANIUM
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VARIATIONS IN SATELLITE ORBITS - ZONAL HARMONICS
SAO SPECIAL REPT.-101 N63-10510 01-29

SATELLITES, SPACE SCIENCE AND ASTROPHYSICS RESEARCH N63-21972 22-05

KOZHEVNIKOV, A. V.
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KOZIEN, F.
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KOZLOV, V. M.
BERYLLIUM - TOXICOLOGY, LABOR HYGIENE, SAFETY
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KOZLOV, L. M.
ULTRASOUND - EFFECT ON NITROPARAFFIN-CARBONYL CONDENSATION
FTD-TT-62-1261/1&4 N63-13580 08-07

KOZLOVA, I. A.
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KOZLOVA, N. N.
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NASA-SP-33, PT. 1 N63-21101 21-32

SPACE FLIGHT HANDBOOK - ORBITAL MECHANICS AND PROPULSION CALCULATIONS
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ORBITAL FLIGHT HANDBOOK - CALCULATION OF PARKING ORBITS, MISSION AND GUIDANCE & CONTROL REQUIREMENT
NASA-SP-33, PT. 3 N63-21103 21-32

KRAFT, G. D.
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RADC-TDR-62-498 N63-16944 14-09

KRAFT, H. A.
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KRAFT, H. C.
ULTRAHIGH FREQUENCY POWER AMPLIFIER TUBES - PEAK CATHODE EMISSION AND MAXIMUM RADIO FREQUENCY OUTPUT, 200 MICROSECONDS PULSE DURATION
RADC-RAL-TM-63-8 N63-18376 17-09

KRAFT, R.
MATERIAL TESTING AT HIGH PRESSURES - BIBLIOGRAPHY
UCRL-7160 N63-15654 12-01

KRAICHNAN, R. H.
NUMERICAL APPROXIMATION OF INTERACTION FOR INVISCID SHEAR FLOW N63-18081 16-11

KRAJCOVIC, S.
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KRAMER, I. R.
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KRAMER, W. C.
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KRANTZ, J. E.
JET ETCH TRANSISTOR RELIABITY IMPROVEMENTS
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KRANZ, E. F.
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KRASNOVSKII, A. A.
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AEC-TR-4501 N63-10210 01-07

KRASOTKINA, N. I.
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RELATIVITY THEORY AND VECTOR-SCALER TRANSFORMATION OF KINEMATIC AND DYNAMIC QUANTITIES OF ROCKETS - ASTROPHYSICS
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KRAUSE, L. N.
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KRBECHEK, L. O.
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BRAYTON CYCLE NUCLEAR SPACE POWER SYSTEMS AND THEIR HEAT TRANSFER COMPONENTS
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KREDER, K.
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KREIDL, N. J.
NON-OXIDE MATERIALS WITH DEFECT STRUCTURES
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KREIKEN, E. A.
METEORIC DUST FALLOUT FROM IRON METEORITES
AFCRL-63-824 N63-19576 19-05

KREITZBERG, C. W.
SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLONES, PRECIPITATION, CLOUD VISIBILITY, TURBULENCE AND ICING
AFCRL-63-22 N63-13818 09-21

KREKELER, J. H.
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NLCO-882 N63-17916 16-07

KREMNEV, O. O.
HEAT TRANSFER OF WAVE STRIPS IN A LONGITUDINAL AIR STREAM
FTD-TT-62-971/1&2 N63-10344 01-13

KRENDEL, E. S.
NATURAL PILOT MODEL FOR FLIGHT PROFICIENCY EVALUATION IN OPERATIONAL FLIGHT TRAINING - PILOT PERFORMANCE PROFICIENCY MEASUREMENTS
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TWO-PHASE DROP VAPORIZATION
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KRENZ, J. H.
HARMONIC GENERATION IN MICROWAVE PLASMAS - THEORY OF NONLINEAR DISCHARGE
ML-1055 N63-22999 23-24

KREPLIN, R. W.
SOLAR X-RAYS - ROCKET MEASUREMENTS
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KRESAK, L.
DENSITY DISTRIBUTION OF METEORS IN EARTH ORBIT
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KRESAKOVA, M.
DENSITY DISTRIBUTION OF METEORS IN EARTH ORBIT
N63-16657 14-12

KRESSE, F. H.
HUMAN FACTORS IN TRAINING AND PROFICIENCY MEASUREMENT - AIR TRAFFIC CONTROL SYSTEMS
ESD-TDR-63-328 N63-19643 19-14

KRESSER, S. L.
JPL BIBLIOGRAPHY ON SPACE SCIENCE, 1961-1962
JPL-BIBL-39-3 N63-10765 02-01

KRETSCHMAR, G. G.
SOLAR BLIND PHOTODIODES HAVING MAXIMUM SENSITIVITY IN MIDDLE ULTRAVIOLET RADIATION SPECTRUM
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KRETSCHMER, C. B.
KINETICS OF THREE-BODY ATOM RECOMBINATION - NITROGEN, HYDROGEN
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KREUZER, B.
LOW-ALTITUDE REPEATER SATELLITE
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KREY, C.
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KRIEBEL, A. R.
THEORETICAL INVESTIGATION OF DYNAMIC STABILITY DERIVATIVES OF DUCTED PROPELLERS
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KRIEBEL, H. W.
DRAG OF CYLINDERS IN STEADY PARTICLE-LADEN GAS FLOW
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KRIEG, J.
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KRIEGEL, W. W.
SPINEL SINGLE CRYSTALS - CRYSTAL GROWTH AND STRUCTURE DEFECTS
ASD-TDR-62-1086 N63-18028 16-18

KRIEGER, F. J.
SOVIET ASTRONAUTICS - 1957 TO 1962
RM-3595-PR N63-15570 12-32

THERMODYNAMICS OF GRAPHITE OVER TEMPERATURE RANGE TO 6000-DEG K AND PRESSURES TO 1000-ATM - GRAPHITE CARBON VAPOR SYSTEM
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THERMODYNAMIC PROPERTIES OF POLYSTYRENE-HYDROCARBON CHEMICAL VAPOR DEPOSITION SYSTEM
RM-3708-PR N63-19118 18-23

THERMODYNAMIC PROPERTIES OF POLYETHYLENE OVER TEMP RANGE TO 6000-DEG K AND PRESSURES TO 1 MILLION ATM - TABLES AND GRAPHS
RM-3709-PR N63-19161 18-23

KRIETMAN, M.
MAGNETORESISTIVE BEHAVIOR OF POLYCRYSTALLINE INDIUM PLATES IN MAGNETIC FIELDS
N63-20713 21-25

KRIGER, L. V.
LOG AND INVERSE-LOG FUNCTION GENERATING CIRCUITS FOR USE IN DIGITAL VOCODER PITCH CHANNEL
AFCRL-63-186 N63-19793 19-09

KRIPL, J. F.
UNIVERSAL PRINT READER - SCANNER, CHARACTER RECOGNITION, AND DATA PROCESSING
RADC-TDR-63-181 N63-16401 14-20

KRIPSKIY, A. M.
OBTAINING SUPER-STRONG UNBREAKABLE GLASS - BRITTLENESS AND TENSILE STRENGTH
FRL-TN-101 N63-16476 14-19

KRISJANSONS, J. O.
EXPLOSION LIMIT STUDIES OF NITROUS OXIDE AND NITROUS OXIDE-NITROGEN-AIR MIXTURES
ARL-62-431 N63-11007 03-26

KRISTIANPOLLER, N.
OPTICAL PROPERTIES OF LIUMOGEN - A PHOSPHOR FOR WAVELENGTH CONVERSION N63-14374 10-23

KRISTIANSEN, M.
RESONANCES AND WAVES IN ONE- AND TWO-ION SPECIES PLASMAS SUBJECTED TO INTENSE MAGNETIC FIELDS
NASA-CR-50855 N63-21998 22-24

KRITZ, A. H.
RADIAL ELECTRON DISTRIBUTION IN WAKES OF HYPERVELOCITY PROJECTILES
BBE63-001 N63-16313 13-24

KRIVISKIY, A. S.
GENETIC VARIABILITY IN VIRUSES AND BACTERIOPLAGES UNDER ACTION OF RADIATION AND CHEMICAL AGENTS
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BIBLIOGRAPHY - SOVIET SATELLITE OPERATIONS, 1957-1962
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MC CORMICK, J. B.
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MC CUNE, J. E.
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MIRSKY, I.
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MISHIN, V. M.
GEOMAGNETIC STORM THEORY - SOVIET STUDY
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ANALYSIS OF ANNUAL VARIATION IN MAGNETIC ACTIVITY-GEOMAGNETISM
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MISHIN, YU. L.
RADIO ENGINEERING - EDUCATION
JPRS-16211 N63-11520 03-09

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NBS-TN-127
N63-11032 03-08

REMUS, G. A.
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THERMOCHEMISTRY OF OXYGEN-FLUORINE BONDING
UTC-2002-FR N63-15440 12-07

REYMANN, C. B.
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TRECOM-TR-63-15 N63-13799 09-34

REYNAFARJE, B.
PYRIDINE NUCLEOTIDE OXIDASES AND TRANSHYDROGENASE IN ACCLIMATIZATION TO HIGH ALTITUDE
SAM-TDR-62-88 N63-14791 11-16

REYNOLDS, A. L.
MATRIX ANALYSIS - CANONICAL FORM OF TANDEM-COUPLED FOUR-PORTS
PIBMRI-1092-62 N63-19972 19-09

REYNOLDS, D.
MICROWAVE TUBES - POWER MEASUREMENTS ON THE SAS 61 KLYSTRON
EE-544 N63-16074 13-09

REYNOLDS, F. L.
NUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT
UCRL-10624 N63-16538 14-07

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PSYCHOPHYSIOLOGICAL EFFECTS OF PROLONGED MANNED SPACE FLIGHT - WEIGHTLESSNESS, COSMIC RAYS
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NIOBIUM ALLOY SHEET ROLLING PROGRAM N63-16545 14-18

REYNOLDS, J. H.
NUCLEAR PHYSICS, REACTORS, CHEMICAL ENGINEERING, METALLURGY, RADIATION & ENGINEERING - PROGRESS REPORT
BNL-759/S-62/ N63-14890 11-01

REYNOLDS, J. M.
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ELECTRON TRANSPORT COEFFICIENTS - EFFECT IN SINGLE CRYSTAL BISMUTH AT LIQUID HELIUM TEMPERATURES
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CORROSION, METALLURGY, AND RADIATION EFFECTS OF MATERIALS FOR NUCLEAR FUEL CLADDING
GEAP-4060 N63-13498 08-18

REYNOLDS, O. E.
OBJECTIVES OF SPACE BIOLOGY - SEARCH FOR EXTRA-TERRESTRIAL LIFE, SUPPORT OF MANNED SPACE FLIGHT, STUDY OF ORGANISM-ENVIRONMENT RELATIONSHIPS N63-12836 06-16

SPACE SCIENCE PROGRAM - RELATION TO EDUCATION AND PHYSICS TEACHING
NASA-EP-12 N63-21456 22-29

REYNOLDS, P. A.
OPTIMIZATION OF LINEAR CONTROL THEORY FOR APPLICATION TO AEROSPACE VEHICLE CONTROL SYSTEMS N63-15634 12-09

REYNOLDS, R. S.
VACUUM ULTRAVIOLET RADIATION EFFECTS ON MATERIALS IN VACUO - SPACE ENVIRONMENTAL RESEARCH FACILITY
WADD-TR-60-371, PT. II N63-19926 18-10

REYNOLDS, T. E.
RESEARCH SURVEY ON THE STABILITY OF SHELL STRUCTURES UNDER HYDROSTATIC LOADING - BOUNDARY CONDITIONS AND SMALL DEFLECTION THEORY N63-10847 02-33

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DTMB-1614 N63-14747 11-33

REYNOLDS, T. W.
DESIGN OF AIRCRAFT FUEL TANKS FOR LIQUID HYDROGEN
NACA-RM-E55F22 N63-12535 06-26

EFFECT OF DISSOCIATION ON EXHAUST NOZZLE PERFORMANCE
NACA-RM-E58C25 N63-13878 09-26

THERMIONIC ELECTRON EMISSION CURRENTS FROM CESIUM COATED TUNGSTEN ACCELERATOR ELECTRODES IN ION THRUSTERS
NASA-TN-D-1879 N63-21890 22-06

REYNOLDS, W. C.
HEAT TRANSFER WITH LAMINAR FLOW IN ANNULI

AHT-5 N63-10995 02-13

HECTIC-II - FORTRAN COMPUTER PROGRAM FOR HEAT TRANSFER ANALYSIS OF GAS OR LIQUID COOLED REACTORS - APPLICATION TO OTHER HEAT EXCHANGERS
IDO-28595 N63-12494 06-23

HEAT TRANSFER WITH LAMINAR FLOW IN CONCENTRIC ANNULI WITH CONSTANT AND VARIABLE WALL TEMPERATURE AND HEAT FLUX
NASA-TN-D-1972 N63-20324 20-13

REZA, F. M.
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RUBINA, L. S.
IGY BIBLIOGRAPHY OF LITERATURE PUBLISHED IN RUSSIAN
NASA-TT-F-109 N63-14012 09-12

RUBINOFF, M.
INVESTIGATION AND EVALUATION OF MATHEMATICAL METHODS USED IN UNIVERSAL DIGITAL OPERATIONAL FLIGHT TRAINER TOOL/UDOFTT
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SIMPSON, S. M., JR.
MAGNETIC TAPE COPIES OF MIT GEOPHYSICS PROGRAM, SET I - BIBLIOGRAPHY
AFCRL-63-282 N63-14241 10-20

SIMPURA, S. F.
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AMRL-TDR-63-5 N63-15646 12-16

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FTD-TT-62-1174/1&2&4 N63-10349 01-23

STOLZENBURG, W. A.
OPTICAL FLOW VISUALIZATION TECHNIQUES FOR HYPERSONIC WIND TUNNEL FOR STUDY OF FLUID MECHANICS
SM-41379-9 N63-15610 12-10

STONER, P. R.
ELECTROMAGNETIC INTERFERENCE - BIBLIOGRAPHY
SB-62-44 N63-17641 16-23

STONE, A. R.
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STONE, D. J.
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STABILITY & CONTROL OF AIRCRAFT - AERODYNAMIC LOADING
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DEVELOPMENT OF A HOT GAS VALVE
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STONEHOUSE, A. J.
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STONER, W.
PLASMA PROPERTIES PERTAINING TO ARC-JETS - LIQUID PROPELLANTS
ASD-TDR-62-451 N63-11330 03-26

STONESIFER, J.
MISSION OPERATIONS - MA-8 MISSION - PRELAUNCH, LAUNCH, ORBIT, AND RECOVERY N63-11992 05-32

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VON BARANOFF, A.
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VON BECKH, H. J.
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VON BIEL, H. A.
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MANAGEMENT OF SPACE PROGRAM AT FIELD CENTER - NASA
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LUNAR EXPLORATION CONFERENCE - RADAR ECHO, RADAR DATA INTERPRETATION, PHOTOGRAPHIC PHOTOMETRY, LUNAR VOLCANICS, & MANNED EXPLORATION
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ADVISORY GROUP FOR AERONAUTICAL RESEARCH AND DEVELOPMENT - GENERAL INFORMATION 1962
N63-13314 07-01

VON KENSCHITZKI, C. H.
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TRACKING SYSTEMS, MATHEMATICAL MODELS & ERRORS
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VOROBYEV, G. G.
SOVIET BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE SCIENCES /NO. 48/ 1962
JPRS-16455 N63-10526 01-01

SYSTEMATIZING TEKTITE DATA USING MANUAL CARD SORT, METEORITIC APPLICATION
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VOROBYEVA, O. B.
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AM-84 N63-10370 01-01

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WEBER, E.
RESEARCH IN ELECTROMAGNETICS, PLASMA PHYSICS, SOLID STATE, MICROWAVE CIRCUITS, CONTROL SYSTEMS
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GROUND AND AIRBORNE RADOMES - BIBLIOGRAPHY
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MEAN ELECTRON DENSITY VARIATIONS OF THE QUIET IONOSPHERE, SEPT. 1959
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